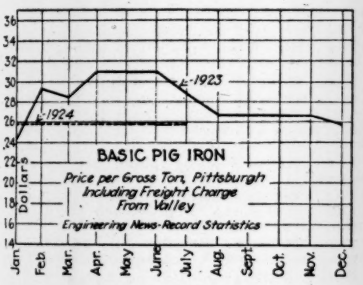
CONSTRUCTION NEWS

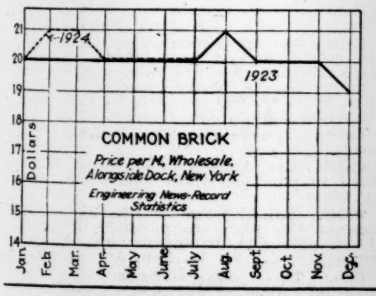
Engineering News-Record, July 3, 1924

The Construction Barometer

Increase in Number of Large Jobs Now Out for Bids — No Slackening of Production in Cement, Stone, Brick and Glass Industries—Curtailment of Output and Declining Prices Mark Other Basic Materials

THE price trend in most of the basic materials is definitely downward. Production schedules are beginning to show contraction, commensurate with falling demand. The most notable declines during the past month occurred in steel and lumber. A certain few of the important materials, however, are cited as exceptions to the prevailing trend. Cement, for instance, at Chicago, has not changed in price since the first of the year. The same is true of basic pig iron at Pittsburgh. Common brick, f.o.b. New York, are the same price now as in April, 1924. The same average common labor rate has prevailed throughout the nation since May. On the other hand, linseed oil, an indicator of the paint trade, advanced 2c. per gal. in New York on June 27. Among the favorable factors in the construction industry, are: (1) An increase in the number of large jobs now out for bids; (2) increased production schedules in the cement, stone, brick and glass industries.





Engineering News-Record Statistics

Minimum on water-works and excavations, $15,000; other public work, $25,000; industrial buildings, $40,000; commercial buildings, $150,000.

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

Week Ended	Public Work	Private Work	Total Contracts
June 12	$19,883,000	$13,002,000	$32,885,000
June 19	15,360,000	14,283,000	29,643,000
June 26	23,038,000	14,521,000	37,559,000
3 weeks	$58,281,000	$41,806,000	$100,087,000

LARGE BUILDING CONTRACTS—NUMBER AND VALUE

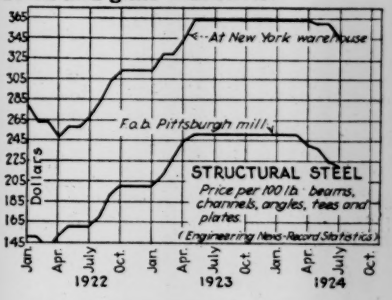
Week Ended	Public No.	Public Work	Private No.	Private Work
June 12	12	$3,558,000	22	$11,355,000
June 19	11	3,150,000	32	12,604,000
June 26	12	2,170,000	30	7,414,000
3 weeks	35	$8,878,000	84	$31,373,000

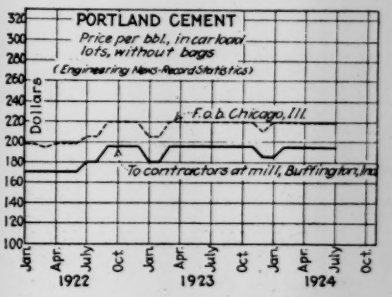
NUMBER OF LARGE JOBS NOW OUT FOR BIDS

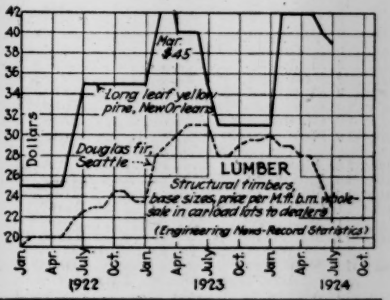
Week Ended	Private	All Buildings	Streets and Roads	Waterworks and Sewers	All Public
June 12	27	48	99	41	236
June 19	12	25	84	29	191
June 26	20	31	86	31	205

CONTINUED WEAKNESS IN STEEL AND PINE LUMBER

	Quoted on July 3 at	Price was	On
Structurals, Pittsburgh, 100 lb.	$2.00	$2.10 @2.25	June 26
Cement, Chi., net bbl.	2.20	2.10	Jan. 24
Pine, N. Y., M. ft.	57.00	58.00	June 26
Fir, San Fran., M.ft.	36.00	38.00	Jan. 24
Common labor, hr...	.56	.55	Apr. 24







PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
July 7	Trenton, N. J.	July 3
July 7	Park Ridge, N. J.	June 26
July 7	Victor, N. Y.	June 26
July 7	Sioux Falls, S. D.	June 26
July 7	Philadelphia, Pa.	July 3
July 9	Long Island City, N. Y.	July 3
July 9	New York, N. Y.	July 3
July 10	Shreveport, La.	June 26
July 10	Kenwood, N. Y. Adv. July 3.	July 3
July 11	St. George, N. Y.	July 3
July 12	Oxford, N. C.	July 3
July 14	Roslyn, Wash.	July 3
July 14	Iron Mountain, Mich.	July 3
July 16	Shreveport, La.	June 5
July 17	Windsor, Ont.	June 26
July 17	Westerville, O. Adv. June 26 and July 3.	June 26
July 21	Denver, Colo. Adv. July 3.	July 3
July 24	Dallas, Tex.	June 5

SEWERS

Bids Close		See Eng. News-Record
July 7	Upper Arlington (Columbus P. O.), O.	July 3
July 7	Franklin, Pa. Adv. July 3.	July 3
July 8	Denmark, S. C.	July 3
July 8	Springfield, Mass.	July 3
July 8	Springfield, Mass.	June 19
July 9	Brooklyn, N. Y.	July 3
July 9	Jackson, Mich.	June 26
July 10	New York, N. Y.	July 3
July 14	Dumont, N. J.	June 26
July 14	New Jersey Adv. June 26 and July 3.	June 26
July 14	Norfolk, Va. Adv. July 3.	July 3
July 15	Jersey City, N. J. Adv. July 3.	July 3
July 18	Port Washington, N. Y. Adv. July 3.	July 3
July 18	Clawson, Mich. Adv. July 3.	July 3
July 21	Port Chester, N. Y. Adv. July 3.	July 3
July 21	Hasbrouck Heights (Hackensack P. O.), N. J.	June 26
July 31	Tulsa, Okla. Adv. June 26 and July 3.	June 26
Aug. 15	Waco, Tex.	July 3

WASTE DISPOSAL

Bids Close		See Eng. News-Record
July 7	Ambridge, Pa.	June 5
July 14	Mankato, Minn. Adv. July 3.	July 3

Bids Close		See Eng. News-Record
BRIDGES		
July 7	Key West, Fla.	June 26
July 8	Missouri	July 3
July 9	Chicago, Ill.	June 26
	Adv. June 26 and July 3.	
July 11	Ohio	July 3
July 14	Houston, Tex.	June 19
July 15	Norristown, Pa.	June 26
	Adv. June 26 and July 3.	
July 15	Kentucky	June 26
July 16	Phila., Pa.	June 26
	Adv. June 26 and July 3.	
July 19	Cambridge, Mass.	July 3
	Adv. July 3.	
July 23	Florida	June 26
	Adv. June 26 and July 3.	
DAMS		
July 7	Hartville, Mo.	July 3
July 12	Wells, N. Y.	July 3
	Adv. July 3.	
EXCAVATION, DRAINAGE IRRIGATION		
July 11	Los Angeles, Cal.	July 3
July 16	New York	July 3
	Adv. July 3.	
STREETS AND ROADS		
July 4	Quebec	July 3
July 5	Quebec	July 3
July 7	New York	June 19
July 7	Poor Fork, Ky.	June 26
July 7	Key West, Fla.	June 26
July 7	Valley City, N. D.	July 3
July 7	Michigan	July 3
July 7	Fowler, Ind.	July 3
July 7	Goshen, Ind.	July 3
July 7	Frankford, Ind.	July 3
July 7	North Dakota	July 3
July 7	Upper Arlington (Columbus P. O.), O.	July 3
July 7	Columbus, O.	July 3
July 7	Cleveland Heights, O.	July 3
July 8	Denmark, S. C.	July 3
July 8	Walhalla, Tex.	July 3
July 8	Massachusetts	July 3
July 8	Michigan	July 3
July 8	Louisiana	July 3
July 8	Missouri	July 3
July 8	Columbus, O.	July 3
July 8	Williamson, W. Va.	June 19
July 8	Petersburg, Ind.	June 19
July 8	Grantsville, W. Va.	June 26
July 8	Lakeland, Fla.	June 26
	Adv. June 26 and July 3.	
July 8	Wallingford, Conn.	June 26
July 8	Williamson, W. Va.	June 26
July 8	Jackson, Tenn.	June 26
	Adv. June 26 and July 3.	
July 8	Buffalo, N. Y.	July 3
July 8	Marshalltown, Ia.	July 3
July 9	Milwaukee, Wis.	July 3
July 9	Maryland	June 26
	Adv. June 26 and July 3.	
July 9	New Jersey	June 26
	Adv. June 19 to July 3.	
July 9	Rock Springs, Tex.	June 26
July 9	Spangler, Pa.	June 26
July 9	Jacksonville, Fla.	June 26
July 9	Miami, Fla.	July 3
July 9	Seabreeze, Fla.	July 3
July 9	Michigan	July 3
July 9	Brooklyn, N. Y.	July 3
July 9	Hastings, Pa.	July 3
July 10	Louisiana	July 3
July 10	Olathe, Kan.	June 12
July 10	New Brunswick, N. J.	June 26
	Adv. June 26 and July 3.	
July 10	Alabama	June 26
July 10	Brooklyn, N. Y.	July 3
July 10	New York, N. Y.	July 3
July 11	Osborne, Kan.	June 19
July 11	Moundsville, W. Va.	June 26
July 11	Mt. Holly, N. J.	June 26
	Adv. June 26 and July 3.	
July 11	New York	July 3
	Adv. June 26 and July 3.	
July 11	Alderson, W. Va.	July 3
July 11	Ohio	July 3
July 11	Prairie du Chien, Cal.	July 3
July 11	Kenosha, Wis.	July 3
July 12	Cold Springs, N. Y.	June 26
	Adv. June 26 and July 3.	
July 14	Georgetown, Pa.	June 26
July 14	Temple, Tex.	July 3
July 14	Laurel, Miss.	July 3
July 14	Michigan	July 3
July 15	Michigan	July 3
July 15	Faribault, Minn.	June 5
July 15	Alabama	June 12
July 15	Kentucky	June 26
July 15	St. Louis, Mo.	June 26
July 15	Anoka, Minn.	June 26
July 15	National Park, N. J.	June 26
	Adv. June 26 and July 3.	
July 15	Pennsylvania	June 26
	Adv. June 26 and July 3.	
July 15	Toms River, N. J.	July 3
	Adv. July 3.	
July 16	Fairmont, W. Va.	June 26
July 16	Winfield, Kan.	June 26
July 17	Teaneck (mail West Englewood), N. J.	July 3
July 18	Fairmont, W. Va.	June 26
July 21	Red Bank, N. J.	July 3
	Adv. July 3.	
July 22	Louisiana	July 3
July 22	St. Louis, Mo.	June 26
July 25	Olathe, Kan.	July 3
July 30	Mound City, Kan.	July 3
BUILDINGS—INDUSTRIAL		
July 8	Owatonna, Minn.	June 26
July 8	Wake Forest, N. C.	June 26
July 9	Harrisburg, Pa.	June 26
July 15	Portland, Ore.	July 3
BUILDINGS—COMMERCIAL		
July 7	Alliance, O.	June 19
July 7	Mt. Pleasant, N. Y.	June 26
	Adv. June 26 and July 3.	
July 7	Detroit, Mich.	June 26
July 7	Lancaster, Pa.	July 3
July 7	Louisville, Ky.	July 3
July 8	Phila., Pa.	July 3
July 8	Charlotte, N. C.	June 26
July 8	Phila., Pa.	June 26
July 8	Long Island, N. Y.	June 26
July 8	St. George, N. Y.	June 26
July 9	Binghamton, N. Y.	June 26
July 9	San Francisco, Calif.	June 26
July 9	Newton, Mass.	July 3
July 10	Wilmington, Del.	July 3
July 10	Methuen, Mass.	July 3
July 15	Birmingham, Ala.	July 3
July 15	Taylor, Pa.	June 26
July 21	Parsons, Kan.	June 26
July 22	Norristown, Pa.	June 26
	Adv. June 26 and July 3.	
July 22	St. Louis, Mo.	June 26
July 24	New Orleans, La.	July 3
FEDERAL GOVERNMENT WORK		
July 7	Steamboat Hull—Nashville, Tenn.	June 5
July 7	Post Office—Elkhart, Ind.	June 12
July 7	Mezzanine—Pittsburgh, Pa.	June 26
July 7	Dwellings—Owensboro, Ky.	June 26
July 8	Levee—Memphis, Tenn.	June 26
	Adv. June 26 and July 3.	
July 9	Radio Building—Destruction Island, Washington	June 5
July 9	Radio Building—Point St. George, Calif.	June 5
July 9	Road—New Mexico	June 19
July 10	Extensions — Charleston, W. Va.	June 26
July 10	Barges—St. Louis, Mo.	July 3
July 11	Boiler, etc.—Pontiac, Mich.	July 3
	Adv. June 26 and July 3.	
July 14	Post Office—St. Johnsbury, Vt.	June 26
July 15	Post Office — Waterloo, N. Y.	June 26
	Adv. June 26 and July 3.	
July 17	Post Office—Casper, Wyo.	July 3
July 21	Post Office—Jerseyville, Ill.	June 26
	Adv. June 26 and July 3.	
July 22	Road—North Little Rock, Ark.	June 26
	Adv. June 26 and July 3.	
July 22	Steel, Castings, etc.—Louisville, Ky.	June 26
	Adv. June 26 and July 3.	
July 22	Walks, etc.—Tupper Lake, N. Y.	July 3
	Adv. July 3.	
July 23	Brush, Roles—Memphis, Tenn.	July 3
July 23	Grading—San Francisco, Calif.	June 26
July 23	Buildings — San Francisco, Calif.	June 26
July 24	Hydrated Lime—Louisville, Ky.	June 26
	Adv. June 26 and July 3.	
July 28	Dredging—Texas	July 3
	Adv. July 3.	
July 30	Store House Depot, etc.—Pearl Harbor, H. T.	June 5
Aug. 5	Bridge—Florence, Ala.	May 15
	Adv. May 15 to July 3.	
Aug. 13	Steel Water Tanks—Pearl Harbor, H. T.	July 3
	Adv. July 3.	
Sept. 2	Chutes, etc.—Honolulu, H. I.	July 3
	Adv. July 3.	
UNCLASSIFIED		
July 6	Dikes, Bulkhead, etc.—Brooklyn, N. Y.	July 3
July 7	Plumbing System—Mt. Pleasant, N. Y.	June 26
	Adv. June 19 to July 3.	
July 10	Grain Elevator—Vancouver, B. C.	July 3
July 15	Subway—Phila., Pa.	June 12
July 18	Bagging Garners, etc.—Brooklyn, N. Y.	June 26
	Adv. June 26 and July 3.	
July 18	Heating and Plumbing—Oswego, N. Y.	June 26
	Adv. June 26 and July 3.	
July 18	Dock, etc.—Waterford, N. Y.	June 26
Aug. 4	Insulators—Melbourne, Victoria, Australia	June 12
MATERIAL AND EQUIPMENT		
July 10	Tar—New York, N. Y.	July 3
Aug. 29	Dredger—Brisbane, Queensland, Australia	Apr. 10

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Alabama—Alabama Water Co., Amer. Trust Bldg., Birmingham, plans to sell $300,000 bonds for improvement to plants in Bessemer, Anniston, Attalla, Jasper, Albany, Decatur, Irondale, Dora, Greensboro, Russellville, Boaz, Albertville, Girard and Leeds.

Tenn., Harriman — Voted $25,000 bonds for filtration plant.

Ky., Pikeville — J. N. Chester Engrs., Union Bank Bldg., Pittsburgh, Pa., takes bids about July 31, waterworks system, incl. filtration plant, pumping station and reservoir, here, for city. $130,000. Noted June 6.

O., Cleveland — Cleveland Water Dept. rejected bids filtration equipment for Baldwin Filtration Plant, Contr. 51. Noted June 26.

O., Columbus—See "Streets and Roads."

Mo., Buffalo—Making preliminary plans waterworks, tank on tower, distribution system, etc. $40,000. Russell & Axon, Springfield, engrs.

Mo., Knobnoster — Making preliminary plans waterworks, elevated tank and tower and 4, 6 and 8 in. c.i. mains, etc. $40,000. Shockley Eng. Co., 800 Graphic Arts Bldg., Kansas City, engrs.

Tex., Big Lake — Election soon $35,000 bonds complete waterworks. Address Mayor.

Tex., Houston—See "Buildings."

Tex., Houston—West Edgmont Land Co., c/o J. S. Boyles, engr.; Court House, making plans waterworks system, West Edgmont Addition. $15,000.

Tex., Kerens—Made plans waterworks. To exceed $20,000.

Tex., Lufkin—Election July 15, $75,000 bonds waterworks improvements. T. L. Dunn, city secy. Noted June 26.

Tex., Timpson—Election July 15, $15,000 bonds waterworks. Address Mayor.

Okla., Stillwater—Making plans waterworks improvement, dam and pipe line, $250,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engr. Noted May 1.

Calif., Del Mar—South Coast Land Co., 740 South Bway., Los Angeles, making plans water works, incl. reservoir, booster pumping plants, storage tanks, and pipe lines, here. $25,000 or more. R. F. Cowles, 740 South Bway., Los Angeles, engr.

Calif., Glendale — See "Streets and Roads."

Calif., Los Angeles—Pub. Serv. Comn. plans to purchase 8,568 tons 4- to 24-in. c.i. pipe.

Calif., Santa Rosa—Purchasing Agent Sonoma Co. plans to purchase 3,170 ft. 1½ in. pipe and fittings for use in Armstrong Grove. W. W. Felt, Jr., co. clk.

Que., Three Rivers—Soon takes bids filtration plant. $370,000. Asselin & Denoncourt, Three Rivers, archts. C. Gelinas, city engr. Noted June 12.

BIDS DESIRED

N. Y., Kenwood—July 10, by Sherrill-Kenwood Water Dist., constructing 1,500,000 gal. reservoir; adv. E. N.-R. July 3.

N. Y., Long Island City—July 9, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Buskirk, Eva, Hemlock and Trimble Places, 159th, Elmhurst, Flushing, Folsom and Griffith Aves., 115th, 116th, Freemont, Lambert, Mary, McPherson, Shaler, 24th, 37th and 94th Sts.

N. Y., New York — July 9, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., making and removing connections, and setting additional hydrants in mains in 1st, 3rd, 5th, 8th, 10th, 11th ad 12th Aves., King, Washington, Whitehall, East 26th, East 34th, West 59th, West 60th and West 146th Sts.

Waterworks (Continued)

N. Y., St. George — July 11, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Richmond Turnpike, Grace, Lindenwood, Old Mill and Old Town Rds., Gordon and Herbert Sts., Cubberly, Deppe, Hilltop, Holley, Oakley, Ocean View and Van Clief Places, Alter, Anderson, Bement, Cameron, Castleton, College, Delaware, Drake, Garrison, Hillcrest, Holten, Morrison, Parkinson, Potter, Raleigh, Rice, Utter, Wilbur, Wiman and Winham Aves.

N. J., Pennington — July 7, by Boro. Council, 3,100 ft. 8 in. mains in Eglantine and Delaware Aves. H. Laning, 103 South Main St., engr.

Pa., Phila.—July 7, by Bureau Water, Dept. Pub. Serv., Contr. 673, 16 in. mains and appurtenances in Margaret and Tackawanna Sts., Contr. 682, general improvement Queen Lane Station, Contr. 683, plumbing in Queen Lane Pumping Station, Contr. 686, 24 in. pipeline Spring Garden St., Contr. 687, 50,000 lbs. piglead, Contr. 688, small pipe and fittings at Torresdale filtration plant, Contr. 689, aeration flume and paving at Queen Lane filters, contr. 690 16 and 20 in. pipe line in Cottman St., Contr. 691, fencing at various plants, Contr. 692 patent connections on Lardners Point Pumping Station.

N. C., Oxford—July 10, by city, waterworks improvements, incl. 6.1 mi. more or less 12 in. and approximately 2,000 ft. more or less 16 in. mains, pumping station on Tar River, etc. W. C. Olsen, Raleigh, engr. Noted Jan. 31.

Mich., Iron Mountain—July 14, by Bd. Water Comrs., 3 m.g. filtration plant and high service pumping station. Hoad, Decker, Shoecraft & Drury, 303 South State St., Ann Arbor, engrs.

Wis., Watertown—July 14, by Water Comn., F. Schmutzler, secy., laying 9,801 lin.ft. 4 and 6 in. c.i. mains in various streets. $18,000. A. Kraeft, City Hall, engr. Noted April 24.

Ill., Winthrop Harbor—June 30, by Bd. of Local Impvts., 1,230 lin.ft. 8-in. c.i. pipe, weight not less than 45 lbs. per lin.ft., 22,160 lin.ft. of 6-in. c.i. pipe weight not less than 33 lbs. per lin.ft., etc. J. P. Anen, village pres.

Colo., Denver—July 21, by City and Denver Co. by and through its Bd. Water Comrs., 1509 Cleveland Pl., steel or precast rein.-con. conduit. B. Lowther, ch. engr.; adv. E. N.-R. July 3.

Wash., Roslyn—July 14, by City Comn., moving pipe line steel bridge and reconstructing portion of present gravity pipe line, 1,266 ft., 12-in. Natl. Matheson and 5,350 ft. 12-in. Natl. Converse steel pipe, etc.

Calif., Meridian—June 30, by Trustees Reclamation District No. 70, one 350 hp., 60 cycle, 440 volt 3 phase pumping plant, synchronous or induction type, dismantel existing pumping plant and constructing discharge conduit through adjoining levee, 15,000 cu.yd. excav. F. H. Tibbitts, Alaska Commercial Bldg., San Francisco, engr.

Calif., Monterey Park—See "Sewers."

BIDS RECEIVED

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, mains in Foster, Lexington and Willoughby Aves., here, from Stanhy Constr. Co., Steinway Ave., Long Island City, $10,315. Noted June 26.

Md., Baltimore—Mayor and City Council, City Hall, trench excav. for Water Dept., from M. and J. B. McHugh, 892 Markoe St., Phila., Pa., Eastern Dist. $30,300, Western and Southern Dists., $17,320. Noted June 12.

Ill., Quincy — Clearwater reservoir, 1 m.g. capacity, rein.-con., from E. A. Meyer Constr. Co., Quincy, $25,000. Noted June 5.

Calif., Santa Monica — For Arcadia reservoir, 5 m.g. capacity, 16,000 yd. excav., from J. L. Schimmer, Ocean Park, $59,300; Olivette reservoir, 2,500,000 gal. capacity, 14,000 yd. excav., from Metcalf-Saner Co., $38,906. Noted June 19.

CONTRACTS AWARDED

Mass., Boston—Pub. Wks. Dept., City Hall, gate valves, to McCullock Co., Old Colony Ave., South Boston, $13,350. Noted June 19.

Fla., Miami—For 2 steel water tanks at Northwest 36th St. and 7th Ave., to Pittsburg-Des Moines Steel Co., Curry Bldg., Pittsburgh, Pa., $70,975.

La., Coushatta—E. T. Archer & Co., engrs., 609 New England Bank Bldg., Kansas City, Mo., waterworks and sewers to McEachin & McEachin, South Trust Bldg., Little Rock, Ark., $60,000, sidewalks to Turk Constr. Co., Shreveport, $20,000, for city. Noted May 29.

Tex., Houston—See "Buildings."

Okla., Oklahoma City—For 26 steel flood gates, electrical apparatus, etc., to Smith Bros., Oil Exch. Bldg., Oklahoma City, and Callahan Constr. Co., Great Southern Life Bldg., Dallas, Tex., $220,000.

Wash., Bellingham — Bd. Pub. Wks., 3,200 ft. 36-in. and 2,500 ft. 12-in. c.i. pipe and fittings for high line system along north side Whatcom Creek, to U. S. Cast Iron Pipe & Fdry. Co., Coleman Bldg., Seattle. $49,050.

Ont., Sandwich — See "Streets and Roads."

Sewers

PROPOSED WORK

Conn., Watertown—City plans sewers in various streets. $30,000.

N. Y., Binghamton—Had plans prepared for new Trout Brook Sewer Sect. 1 $140,000, Sect. 2 $150,000. E. H. Prentice, city engr.

N. Y., Binghamton—Making plans sanitary sewers in Park Terrace Pl., McNamara, Mildred and Mitchell Aves.; storm water sewers in Conklin and Saratoga Aves., Duke, Montour, Macon, Decatur, Delmar and Medford Sts. To exceed $25,000. E. H. Prentice, city engr.

N. J., Burlington — Plans extending sewers in 10 streets. $72,000. B. Sleeper, Burlington, engr.

W. Va., Fairmont—Election July 22, $50,000 bonds for sewers. S. S. Nuller, Fairmont, engr.

Fla., Brooksville—Election July 15, $30,000 bonds to install sewerage system. P. H. Grelle, city clk.

La., Bastrop—Morehouse Parish voted $125,000 bonds for sewerage system.

O., Columbus—See "Streets and Roads."

Mich., Detroit—Made plans 1,124 ft. 12- to 20-in. vitr. crock Sewer 4146, 14,040 ft. 12- to 24-in. Sewer 4154, 1,386 ft. 12- to 18-in. Sewer 4155, 2,909 ft. 12- to 20-in. Sewer 4157, 1,353 ft. 12- to 24-in. Sewer 4167, 1,149 ft. 10 in. Sewer 4168, 2,127 ft. 12- to 24-in. Sewer 4169, 1,088 ft. 12- to 15-in. Sewer 4171, 1,935 ft. 12- to 18-in. Sewer 4172, 3,212 ft. 12- to 18-in. Sewer 4174, 2,334 ft. 12- to 18-in. Sewer 3852, 2,186 ft. 12- to 18-in. Sewer 4150. G. Jerome, city engr.

Tex., San Augustine — Plans sewerage system. To exceed $25,000.

Tex., San Augustine—Plans election to vote on approximately $40,000 bonds new sewer plant. Address Mayor.

Tex., Timpson—Election July 15, $25,000 bonds sewers. Address Mayor.

Okla., Coweta—Making plans sewerage system, disposal plant, etc. $47,500. Hughes Eng. Co., 206 Cole Bldg., Tulsa, engrs.

Calif., Del Mar — See "Streets and Roads."

Calif., Glendale — See "Streets and Roads."

Calif., Long Beach—Making plans Oregon Ave. storm drain. $1,000,000. C. F. Smith, 504 City Hall, engr. R. Van Alstine, city engr.

Calif., Los Angeles—See "Streets and Roads."

Calif., North Sacramento—Plans election $25.000 to $35,000 bonds for sewerage system. W. O. Irwin, city clk.

Calif., Oakland—City plans election approximately $1,000,000 bonds for sewers in various streets. W. W. Harmon, city engr.

Calif., Stockton—Voted $339,800 bonds sewer and street improvements. W. B. Hogan, city engr.

BIDS DESIRED

Mass., Springfield — July 8, by O. F. Smith, city clk., pumping station, etc. $50,000. Metcalf & Eddy, 14 Beacon St., Boston, engrs.

N. Y., Brooklyn—July 9, by E. Riegelmann, boro pres., Boro Hall, sewers in 11th, Essex, 72nd and East 7th Sts., Albany, Ft. Hamilton and 12th Aves.

N. Y., New York—July 10, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewers in Eastchester Rd., Wilson Pl., Thierot, Adee, Astor, Fenton and Morgan Aves.

N. Y., Port Chester—July 21, by F. G. Schmidt, village clk., Municipal Bldg. sanitary sewers; adv. E. N.-R. July 3.

N. Y., Port Washington—July 18, by Sewer Comrs., 341 Main St., 2½ mi. 8- to 12-in. vitr. sewers, etc. B. F. Allen, 239 Main St., civil engr. and surv.; adv. E. N.-R. July 3.

N. J., Jersey City—July 15, by Bd. City Comrs., Sect. 2 of trunk sewer. Clyde Potts, 30 Church St., New York City, consult. engr.; adv. E. N.-R. July 3.

Pa., Franklin — July 7, at office J. G. Crawford, city clk., sewer in Otter St. adv. E. N.-R. July 3.

Va., Norfolk—July 14, at office W. H. Taylor, dir. Pub. Wks., cast iron and terra cotta sewers in various streets; adv. E. N.-R. July 3.

S. C., Denmark—July 8, by J. E. Stedman, mayor and Town Council at office J. B. Gillam, town clk., sanitary sewerage system. Ryan Eng. Co., Arcade Bldg., Columbia, engrs.

S. C., Walhalla—See "Streets and Roads."

Miss., Laurel—See "Streets and Roads."

O., Upper Arlington (Columbus P. O.)—July 7, by E. D. Howard, village clk., 17,000 ft. 8 and 12 in. sewers, etc., in University addition, Sewer Dist. 4. $44,000. D. B. Sayers, 52 West Gay St., Columbus, engr.

Mich., Clauson—July 18, by C. J. Crawford, comr. Oakland Co. Drain, Pontiac, at Village Hall, Clauson, sewers. Ruhling & Holdsworth, Detroit, consult. engrs.; adv. E. N.-R. July 3.

Wis., Madison — O. Mayer Co., North St., A. C. Bolz, supt., taking bids sewage treating plant. $25,000. Private plans. Noted Feb. 21.

Tex., Denison—Taking bids 5 mi. sanitary sewers. $35,000. O. C. Hayden, city engr.

Tex., Waco—Aug. 15, 8 Imhoff tanks, 4 double sludge tanks, 2 pumping plants, pipe, etc. $350,000. Terrell Bartlett, Calcasieu Bldg., San Antonio, engrs.

Calif., Monterey Park—July 7, by A. W. Langley, city clk., constructing concrete sanitary and rein.-con. storm sewers, c.i. water mains, grading, concrete paving, guttering, curbing, etc., portions of Garvey Way, etc. $25,000.

BIDS RECEIVED

N. Y., New York—H. Bruckner, pres. Bronx Boro., 3rd and Tremont Aves., sewers in Gillespie Ave. from MacDonald & Wilson, $16,138; Philip Ave., from Knight & Demico, 448 East Tremont Ave., $29,385; Lafayette Ave., from C. W. MacDonald, West 10th St., Brooklyn, $10,090; West 230th St., from J. J. V. La Marsh, Inc., 1510 Appleton Ave., $49,570; West 256th St., from A. Musumecci & Son, 277 East 146th St., $20,322; Valles Ave., from Bronx Sewer Constr. Co., 375 East Fordham Rd., $14,305.

Md., Baltimore—For 950 ft. horseshoe section storm drain, 112 ft. diam., in Sewer Dist. P-8, Storm Water Contr. 69, from P. G. Ligon, 4100 Kate Ave., $49,569. B. L. Crozier, hy. engr. City Hall.

CONTRACTS AWARDED

Fla., Bradentown — R. K. Van Camp, engr., Bradentown, storm and sanitary sewers in various streets, to G. Skene, Palmetto, for city. $36.000. Noted June 5.

La., Coushatta—See "Waterworks."

Mich., Detroit—Dept. Pub. Wks., 4,561 ft. Wyoming Ave. Sewer Sect. 7, 1,635 ft. 6 ft. 9 in. 2,555 ft. 5 ft. 3 in. 266 ft. 5 ft. and 33 ft. 4 ft. 6 in. cylinder, to R. A. Mercier, 5435 Wesson Ave., $96,813.

Wis., Menasha—Vitr. clay, sewers in various streets, to E. A. Yahr, Antigo, $39,739.

Calif., Santa Ana—See "Streets and Roads."

Waste Disposal

BIDS DESIRED

Minn., Mankato—July 14, by City Council, garbage incinerators and chimney. F. W. Bates, city clk.; adv. E. N.-R. July 5.

Bridges

PROPOSED WORK

Pennsylvania—New York Central R.R., 466 Lexington Ave., New York City, Lycoming Co. (Williamsport), State and Porter Twp., plan 200 ft. bridge, 35 ft., over New York Central R.R. tracks at Stavertown, near Jersey Shore. $60,303. Railroad will let contract.

W. Va., Fairmont—Election July 22, $50,000 bonds for bridge. S. S. Nuller, Fairmont, engr.

Ohio—See "Streets and Roads."

Ill., Chicago—Sanitary Dist. of Chicago, 910 South Michigan Ave., takes bids about

Bridges (Continued)

July 15, for metal work on bridge at Cicero Ave.

Missouri—State Hy. Dept., Jefferson City, rejected bids June 10, two 10 ft. rein.-con. slab spans over creek, St. Clair Co. B. H. Piepmeier, ch. engr. Noted June 26.

Tex., Georgetown — See "Streets and Roads."

Okla., Oklahoma City—City takes bids in about 2 weeks, steel and 520 ft. concrete bridge across 39th St., $150,000. B. M. Hart, City Hall, engr.

Calif., Inglewood — Making plans concrete viaduct and 30 ft. roadway and 6 ft. walks on each side, in Market St. $75,000 or more. R. V. Lesson, 1060 South Bway., Los Angeles, engr.

BIDS DESIRED

Mass., Cambridge—July 19 at office L. M. Hastings, city engr., City Hall, highway draw bridge over Broad Canal, at 6th St.; adv. E. N.-R. July 3.

Ohio—July 11, by Dept. Hys. & Pub. Wks., Columbus, bridges in Defiance, Meigs, Noble, Pickaway, Pike and Preble Counties. A. V. Donaheys, dir. highways.

Missouri—July 8, by State Hy. Dept., Jefferson City, I-beam, steel truss and rein.-con. slab span bridges in Scott, Saline, Clinton, Butler, Buchanan, Pettis, Platte, Stoddard, Miller and St. Clair Counties. B. H. Piepmier, ch. engr.

BIDS RECEIVED

Arkansas—State Hy. Comn., Little Rock, 120 ft. steel truss bridge with concrete approaches over Palarm Creek, on Conway-Little Rock Rd., Faulkner and Pulaski Counties, from Pioneer Constr. Co., New York Life Bldg., Kansas City, Mo., $16,954; one 20 ft. and one 80 ft. truss, and one 30 ft. I-Beam bridge on Little Rock-Fort Smith Rd., Federal Aid Project 169, Johnson Co., 323,060 lb. structural steel, 43,245 lb. reinforcing, 552 cu.yd. concrete, 2,260 lin.ft. piling, from St. Louis Structural Steel Co., Bank of Commerce Bldg., St. Louis, Mo., $40,632; two 140 ft. steel truss concrete piers and abutments over Buffalo River at Jasper, Newton Co., from Vincennes Bridge Co., Vincennes, Ind., $28,723. Noted

CONTRACTS AWARDED

Massachusetts—Dept. Pub. Wks., State House, Boston, bridges and approaches, in Barnstable, to L. S. White, Inc., West St., Kingston, $34,166.

Tennessee—State Dept. Hys. & Pub. Wks., Nashville, 2 concrete bridges over Forked Deer River, Federal Aid Project 29-B, Madison Co., to J. A. Patterson Co., Montgomery, Ala., $80,941; twenty-nine 25 ft. untreated timber and two 160 ft. structural steel span bridges over Caney Fork River, State Aid Project 163-B, De Kalb Co., to Nashville Bridge Co., foot of Shelby Ave., Nashville, $103,556. Noted June 6.

Ohio—See "Streets and Roads."

Ohio—Dept. Hys. & Pub. Wks. Columbus, bridge and approaches on Sect. "G-1" Akron-Canfield Rd., Mahoning Co., to N. R. Porterfield, Youngstown, 15,965; concrete girder bridge Sect. "G" Marion-Galion Rd., Morrow Co., to C. A. Mauer, Sidney, 3,995; new abutments Sect. "L" Mt. Gilead-Mansfield Rd., Morrow Co., to Coharis & Gerkins, Toledo, $8,372; rejected bids bridge approaches Sect. "D-1" Portsmouth-Columbus Rd., Pike Co. Noted June 26.

Michigan — State Hy. Dept., at office Comrs. Kalamazoo Co., Kalamazoo, Bridge 390,703, two 60 ft. and one 90 ft. concret girder spans, 1,205 cu.yd. concrete, 175,170 lb. steel, etc., to J. R. Ruscha, Grand Rapids, $40,470.

Ill., Chicago—Sanitary Dist. of Chicago, 910 South Michigan Ave., 313 ft. double lead trunion bascule bridge on Cicero Ave., 190 sq.yd. sandstone and 973 sq.yd. wood block pavement, etc., to Fitzsimmons & Connell Dredge & Dock Co., 10 South La Salle St., $886,945.

Ia., Eldorado—Hardin Co., 2 concrete box culverts, 2 I-beam spans and 2 pony truss spans, labor only on 3 pile trestles, to Weldon Bros., Iowa Falls, $27,500.

Ia., Elkador—Bd. Supervs. Clayton Co., sidewalks on Elkador Arch, to O'Neal & Olson, Decorah, $4,807; 9 culverts and one I-beam bridge, to A. Olson Constr. Co., Waterloo, $11,785; 1 culvert and moving 2 pony trusses, to C. H. Williams, Elkador, $11,004; 3 box culverts, to T. Fisko, Garber, $2,066; 1 box culvert, to W. Vogt, Guttenberg, $495.

Ia., Logan—Logan Co., 3 I-beam bridges, 4 trusses and 11 culverts, to Deloit Bridge Co., Logan, $77,000. Noted June 12.

Ia., Sigourney—Bd. Supvs. Keokuk Co., 59 concrete box culverts, and 1 concrete slab bridge, to J. Ritzinger, Sigourney, $38 600.

Kan., Marion—See "Streets and Roads."

Missouri — State Hy. Dept., Jefferson City, to H. H. Humphreys Constr. Co., Fredericktown, one 40 ft. and two 30 ft. rein.-con. deck girder spans, etc., $7,926, two 10 ft. rein.-con. slab spans, etc., over Black Bear Creek, $2,165, two 10 ft. rein.-con. slab spans, etc., over Little Bear Creek, $2,429, three 12 ft. rein.-con. slab spans, etc., over Polar Bear Creek, $4,252, all Wayne Co., one 50 ft. and two 20 ft. I-beam spans, etc., over Drainage Ditch 108, Bollinger Co., $15,584; from S. J. Groves & Sons, Montreal and Cleveland Aves., Minneapolis, Minn., three 20 ft. rein.-con. slab spans, etc., over Long Branch, $4,568, five 20 ft. rein.-con. slab spans, etc., $8,640, both Cooper Co.; to Wagner Bridge & Constr. Co., St. Louis, three 40 ft. concrete deck girder spans, etc., over drainage ditch, Perry Co., $13,402; to A. T. Cooke, Ottawa, Kan., two 45 ft., one 25 ft. and fifteen 20 rein.-con. slab spans, etc., over Middle Fork of Chariton River, Chariton Co., $24,307; to Pittsburg-Des Moines Steel Co., Tuttle and Southwest 10th Sts., Des Moines, Ia., two 12 ft. rein.-con. slab spans, etc., over stream, Scotland, $2,807; to L. O. Kimball, Clear Lake, Ia., two 24 ft., rein.-con. deck girder spans, etc., over Brushy Creek, Carter Co., $2,662. Noted June 26.

Missouri — State Hy. Dept., Jefferson City, one 25 ft. rein.-con. deck girder span, etc., over Northview Branch, Webster Co., to C. F. Johnson & Sons, Buffalo, $2,633; two 16 ft. rein.-con. slab spans, etc., over Dry Branch, St. Francois Co., to J. L. Moss, Webb City, $2,133; two 20 ft. rein.-con. slab spans, etc., over Wolf Creek, and two 20 ft. rein.-con. slab spans over Wet Fork Creek, both Wayne Co., to C. P. O'Reilly & Co., Wainwright Bldg., St. Louis, $6,681 and $5,520 respectively; one 40 ft. rein.-con. deck girder span, etc., over Little Honey Creek, one 40 ft. rein.-con. deck girder span, etc., over Honey Creek, and one 80 ft. steel truss span, etc., over Niaugua Oreek, Webster Co., to M. E. Gillioz, Monett, $6,670, $6,698 and $9,012 respectively; twenty-two 25 ft. I-beam spans, etc., over overflow of Grand River and Shoal Creek, Livingston Co., to Pittsburg Des Moines Steel Co., Tuttle and Southwest 10th Sts., Des Moines, Ia., $26,864; one 80 ft. steel truss, and two 10 ft. rein.-con. slab spans, etc., over creek, Henry Co., to M. Haase, Trenton, $10,645 and 3,395 respectively; one 40 ft. rein.-con. deck girder span, etc., and two 10 ft. rein.-con. slab spans, etc., over stream, Warren Co., to Gaines Bros., Fairland, Okla., $7,544 and $3,034 respectively. Noted June 26.

Dams

PROPOSED WORK

Alabama—Alabama Power Co., B. M. Bldg., Birmingham, plans to expend $39,000,000 for 6 hydro-electric dams on Tallapoosa River, incl. Cherokee Bluff Dam (on which work has been started), total installation 450,000 hp. E. A. Yates, genl. mgr.

Oregon—Columbia Valley Power Co., 493 North West Bank Bldg., Portland, having surveys and plans prepared, for 2 dams, probably rein.-con. arch, one 130 ft. high, 60,000 hp. near Metolius, and other 300 ft. high, 300,000 hp. near Pelton. Parsons, Plapp, Brinkerhoff & Douglass, North West Bank Bldg., Portland, engrs.

BIDS DESIRED

N. Y., Wells—July 12, by Town Bd., dam across Sacandaga River, Morrell Vrooman, 10 North Main St., Gloversville, engr.; adv. E. N.-R. July 3.

Mo., Hartville—See "Industrial Works."

CONTRACTS AWARDED

Tenn., Columbia — See "Industrial Works."

Railways

PROPOSED WORK

Indiana—United Traction Co. of Indiana, Anderson, plans additional tracks, new signal boxes, lines, rails and improvement of road bed. $200,000. Company will do part of work and may relet part as soon as bonds are sold for financing. R. Keesler, ch. engr.

Quebec—E. B. Eddy Co. Ltd., Hull, soon takes bids 1¼ mi. private standard narrow gauge railway. H. S. Taylor, Hull, engr.

Excavation, Drainage, Irrigation

PROPOSED WORK

Tex., Edinburg—See "Unclassified."

Calif., Elsinore—Ladera Irrigation District plans to irrigate approximately 4,000 acres land, also 2 reservoirs, pipe line and several pumping plants in Riverside Co. Bonds to be voted for project. Olmsted & Gillelen, Hollingsworth Bldg., Los Angeles, engr.

Calif., Los Banos — South San Joaquin Water Storage Dist., appointed A. J. Wiley, consult. engr., Boise, Idaho, to prepare plans Friant Dam, powerhouse, electrical development to irrigate approximately 552,000 acres of land, canals, etc. $30,000,000. H. Barnes, city engr.

Calif., Sacramento — Sacramento Deep Water Comn., making surveys for deep water ship canal from Sacramento to Suisun Bay. C. E. Grunsky, 57 Post St., San Francisco, engr.

Ontario—Dept. Pub. Wks., Parliament Bldg., Ottawa, plans dredging in harbors at Cobourg, Wolf Island, Kingston, Huntsville and Maryville. $200,000. K. M. Cameron, ch. engr.

Ont., Harriston—Minto Twp. plans 2 open drains 16,000 cu.yd. excav. 11,000 ft. tile drains. $25,000. W. D. McLellan, town clk.

BIDS DESIRED

New York—July 16, by Salt Water Bays Comn., at office State Engineer, Telephone Bldg., Albany, excavating channel, through certain portions of Bellport, Moriches, Quantuck, Shinnecock and Peconic Bays, etc., Suffolk Co. D. B. Ladw, chn.; adv. E. N.-R. July 3.

N. Y., Brooklyn — See "Unclassified" under "Dikes, Bulkheads, etc."

Calif., Los Angeles—July 11, by J. G. Starr, secy. Harbor Comn., 312 Byrne Bldg., dredging in slip at Berth 228. To exceed $25,000.

Calif., MacDoel—July 3, by E. O. Bissell, secy. Butte Valley Irrigation Dist., canals, flume, pipe line and regulation works of Bear Creek Diversion, 20,000 cu. yd. loose rock and earth, also 10,000 cu. yd. solid rock excav., etc.

Calif., Oroville — July 8, by Directors Thermalito Irrigation Dist., 1,100 ft. ditch and diverting dam, approximately 1,250 cu. yd. solid rock excav., 1,000 lin.ft. dry wall, etc.

Streets and Roads

PROPOSED WORK

Mass., Dorchester (Boston P. O.)—City of Boston plans constructing Christopher, Ramsey and Perkins Sts., here. $25,000. J. F. Sullivan, Boston, secy. Street Laying Out Dept.

Conn., Hartford—Plans widening underpass, boring tunnel and building sidewalks under Railroad bridge on Asylum St. $25,000. R. N. Clark, city engr.

Conn., Torrington—Plans asphalt paving East Main St. to Harwinton town line. $54,000. C. A. Patterson, city engr.

N. Y., Herkimer—Bd. Trustees soon takes bids paving various streets. To exceed $25,000. E. M. Pettengill, village clk.

N. Y., Hornell — Common Council plans concrete paving John, Florence, Prangen, McDougall, South and Spruce Sts., also several streets iwth asphalt. $100,000. W. J. Mackay, city clk.

N. J., Caldwell — Essex Co. (Newark), making plans grading and paving 1.7 mi. Runnymede Rd., 2 in. asphaltic concrete or Amelsite on stone. $45,000. W. A. Stickel, Court House, Newark, engr.

N. J., Irvington (branch of Newark) — Essex Co. (Newark) making plans removing old pavement, grading and paving 0.76 mi. Stuyvesant Ave., 36 ft., sheet asphalt on concrete. $80,000. W. A. Stickel, Court House, Newark, engr.

N. J., Roseland — Essex Co. (Newark) making plans grading and paving 1.3 mi. Harrison Ave., 20 ft., 8 in. rein.-con. $80,000. W. A. Stickel, Court House, Newark, engr.

W. Va., Fairmont—Election July 22, $400,000 bonds for street improvements. S. S. Nuller, Fairmont, engr.

Fla., Anna Maria—Manatee Co., (Bradentown), voted $40,000 bonds constructing various streets, here. W. B. Kirby, Bradentown, engr.

Fla., Brooksville—Election July 15, $40,000 bonds for paving various streets. P. H. Grelle, city clk.

Fla., Titusville — Brevard Co. election July 22, $75,000 bonds oil surfacing on rock, Special Road and Bridge Dists., in Precincts 13 and 22. H. B. Smith, Titusville, engr.

Ala., Albany—City takes bids about Aug. 1, grading and asphalt paving 7 blocks Gordon Drive, 30 ft. $40,000. W. S. Bingham, city engr.

Tenn., Harriman—Voted $100,000 bonds for permanent paving streets.

La., Gretna — Jefferson Parish voted $500,000 bonds for road and lateral work in 7th, 8th and 9th Wards. Noted June 19.

La., Natchitoches — Voted $1,871,000 bonds for road work.

Ohio—Dept. Hys. & Pub. Wks., Columbus, cancelled bids June 13, grading, bridging and paving 3.331 mi. Sect. "G" Columbus-

Streets and Roads (Continued)

Cincinnati Rd., Butler Co., bituminous macadam asphalt or tar, $111,069, bituminous concrete $120,083; grading 1.598 mi. Sect. "D-2" Woodsfield-Clarington Rd., Monroe Co., $3,265. Noted June 26.

O., Warren—Plans resurfacing about 1 mi. Trumbull Parkway, 14 ft., $28,000; improving about 0.75 mi. South Austin Ave., 28 ft., $26,000. W. S. Harvey, Warren, engr.

O., Wickliffe—Made plans approximately 1 mi. stone or cement sidewalks. $25,000. Sterling Eng. Co., 7016 Euclid Ave., Cleveland, engrs.

Mich., Detroit — Making plans paving with 3½ in. sheet asphalt on 8 in. concrete 6,300 sq.yd. Van Dyke Ave. Sect. 1, $31,050, 4,450 sq.yd. Sterritt Ave. $22,510, 1,100 sq.yd. Welton Ave. $5,880; 5,600 sq.yd. Clifton Ave. $28,290, 32,500 sq.yd. Van Dyke Ave. Sect. 2, $162,670, 3,250 sq.yd. Monevista Ave. $16,580; also 6,270 sq.yd. one course concrete in 4 alleys, $15,820. G. Jerome, city engr.

Ill., Hoopeston — Making preliminary plans 7,441 sq.yd. rein.-con. paving 5,300 cu.yd. grading, 8,598 lin.ft. bituminous felt filler, 500 lin.ft. 8-in. vitr. clay pipe, etc. $25,000. W. S. Dillon, Court House, Danville, engr.

Missouri — State Hy. Dept., Jefferson City, rejected bids grading 4.648 mi. road from Vista to Collins, 30 ft., St. Clair Co.; gravel surfacing 3.327 mi. road, from Zebra East and West, 12 ft., and Camden Co., 2.185 mi. road from Diehlstadt south, 16 ft., Mississippi Co. B. H. Piepmeier, ch. engr. Noted June 26.

Tex., Brackettville — Kinney Co. plans highway improvement. $110,000. J. H. Stadler, co. judge.

Tex., Cameron—Milam Co., making plans 4 in. gravel surfacing about 9 mi. State Highway 36, 16 ft. $78,000. A. F. Mitchell, co. engr.

Tex., Floresville—Wilson Co. plans grading and bituminous macadam surfacing 12.12 mi. State Highway 81, 18 ft. $200,000. F. E. Hess, co. engr.

Tex., Georgetown—Williamson Co. plans grading, gravel surfacing and bridging 11 mi. Taylor-Copeland Rd., 16 ft. $140,000. M. C. Welborn, co. engr.

Tex., Jasper—Jasper Co. voted $250,000 bonds hard surfacing highway in Road Dist. 3. $200,000 additional appropriated by State and Federal Aid. C. P. Hunter, co. engr. Noted June 19.

Tex., Huntsville — Walker Co., making plans hard surfacing highway. $160,000. D. K. Caldwell, co. engr.

Tex., McAllen—Election June 28, $60,000 bonds street paving. F. B. Freeland, mayor. Noted May 22.

Tex., Pleasanton — Atascosa Co. voted $300,000 bonds hard surfacing about 40 mi. Precincts 1 and 4. $300,000 additional appropriated by State and Federal Aid. Noted May 22.

Tex., Refugio—Refugio Co. voted $375,000 bonds highway improvement in Austwell Rd. Dist. J. T. Vance, co. judge.

Tex., Rockport—Aransas Co. voted $250,000 bonds highway construction. F. M. Percival, co. engr. Noted May 22.

Tex., Stephenville—Erath Co. voted $35,000 bonds road construction in Stephenville-Bluff Dale Rd. Dist. Address A. P. Young, co. judge.

Tex., Wharton—Wharton Co. plans concrete paving 18 mi. State Highway 12, 18 ft. $1,300,000. W. G. Davis, co. judge.

Okla., Chandler — Lincoln Co. defeated $990,000 bonds for roads. J. M. Page, Capitol Bldg., Oklahoma City, engr. Noted Apr. 1.

Okla., Hugo—Choctaw Co. making preliminary plans grading and gravel surfacing 18 mi. Hugo-Spencerville Rd.

Okla., Nowata—Nowata Co. election July 22, $500,000 bonds for improving roads, 500,000 sq.yd. concrete paving, 300,000 cu. yd. excav. J. M. Page, Capitol Bldg., Oklahoma City, engr. Noted May 8.

Okla., Vinita—Craig Co. election July 22, $500,000 bonds for hardsurfacing roads.

California—State Highway Comn., Sacramento, rejected bids 9,100 cu.yd. gravel or stone surfacing roads between Parkfield Junction and Coalinga, Fresno Co. R. M. Morton, state highway engr. Noted June 5.

Calif., Del Mar—South Coast Land Co., making plans surfacing, curbing, guttering, laying cement or vitr. sewers, in streets. Bids probably on cement or vitrified pipe. $40,000. R. F. Cowles, 740 South Bway., Los Angeles, consult. engr.

Calif., Fresno — Made plans improving Harrison and Safford Sts. between Belmont and Thomas Sts., also Thomas and Belmont Sts. between Harrison St. and Palm Ave., 112,694 sq.ft. gracing, 14,765 sq.ft. concrete walks, 3,608 lin.ft. concrete curb, etc. W. Stranahan, city engr.

Calif., Glendale—Made plans improving portions of Sinclair, Stanley and Richland Sts., 104,050 sq.ft. grading, 80,100 sq.ft. 3 in. macadam paving, 12,050 sq.ft. walks, 1,350 lin.ft. 6 in., and 290 lin.ft. 4 in. pipe and house connections, 2,530 lin.ft. 8 in. vitr. sewer, etc. B. F. Dupuy, city engr.

Calif., Glendale—Made plans improving Acacia Ave., 24,725 sq.ft. 5 in. macadam paving, 36,350 sq.ft. grading, 6,350 sq.ft. walks, 1,210 lin.ft. curb, etc. B. F. Dupuy, city engr.

Calif., Los Angeles—Had plans prepared improving Conoga Rd. from Ventura Blvd. to Drumetz Rd., 26,519 lin.ft. heavy and 30,887 lin. ft. light curb, 283,262 sq.ft. walks, storm drain, lighting system, etc. J. A. Griffith, city engr.

Calif., Martinez—Contra Costa Co. making plans constructing 2 mi. Alameda Crow Canyon Rd. between San Ramon Valley and Alameda Co. line. R. R. Arnold, co. surv.

Calif., Oroville—Supervs. Humboldt Co., takes bids about July 5, widening Lor Ellis Rd., and constructing 6 mi. Hoopa-Willow Creek Rd. A. J. Logan, co. surveyor.

Calif., Roseville—Made plans improving various streets, 150,000 sq.ft. willite paving, 5 and 2 in. thick, 5,000 lin.ft. concrete curb and gutter, etc. J. W. Meredith, city engr.

Calif., Stockton—See "Sewers."

Ontario—Cities of Ford and Walkerville plan 80 ft. highway connecting two cities via Edna St. $1,000,000. A. Fairlie, Hydro Office Bldg., Walkerville, engr.

Ont., Tilbury — Plans cement paving Louise St. 30,000. M. W. Richards, town clk.

Ont., Walkerville—Soon takes bids paving on Kildare and Victoria Rds., asphalt on concrete. $120,000. Prices wanted on materials. A. E. Cock, city engr.

BIDS DESIRED

Massachusetts — July 8, by Dept. Pub. Wks., Division Highway, State House, Boston, rein.-con. paving, 18,259 ft. highway, 20 ft. wide, in Brighton and Somerset. To exceed $35,000. W. F. Williams, comr.

New York—July 11, by A. W. Brandt, comr. Bureau Highways, Albany, constructing and reconstructing highways in Cattaraugus, Cayuga, Chautauqua, Chenango, Columbia, Dutchess, Erie, Genesee, Greene, Lewis, Madison, Monroe, Montgomery, Oneida, Orange, St. Lawrence, Saratoga, Seneca, and Suffolk Counties; adv. E. N.-R. July 3.

N. Y., Brooklyn—July 9, by E. Riegelmann, boro pres., Boro Hall, restoring and repaving where directed in connection with subsurface work; grading strip 50 ft. wide centrally located on Utica Ave.; grading, curbing and flagging Ave. S, East 36th, 45th and 87th Sts.; paving Ave. S, East 36th, Union, 12th, 45th, 61st and 87th Sts., repaving 60th St.; curbing Mansfield Pl.

N. Y., Brooklyn—July 10, by Park Bd. at office Dept. Parks, Municipal Bldg., New York, improving Fort Hamilton Parkway.

N. Y., Buffalo—July 8, by Commissioner Pub. Wks., paving and repaving Cumberland and Wade Aves., Heath, North Division and Elk Sts., brick or asphalt on 6 in. concrete. $40,000. C. E. P. Babcock, Municipal Bldg., engr.

N. Y., New York—July 10, by H. Bruckner, pres. Bronx, 3rd and Tremont Aves., paving with bituminous concrete Beach, Taylor, Teller and University Aves., repaving with granite blocks East 158th and East 149th Sts., grading, curbing and sidewalks on Needham Ave.

N. Y., St. George — July 10, by J. A. Lynch, pres. Richmond Boro., Boro Hall, repaving with bituminous concrete Richmond and Central Aves.

N. J., Red Bank — July 21, by Boro Council, reconstructing Reckless Pl., concrete with asphalt surface. G. K. Allen, 60 Broad St., boro engr.; adv. E. N.-R. July 3.

N. J., Teaneck—(mail West Englewood) July 17, by Com. Teaneck Twp., 10,858 lin.ft. curb and gutter, 18,895 sq.yd. bituminous asphalt macadam paving and 940 ft. 8 in. storm sewers in Selvage Ave., Katherine, Anna, and Stasia Sts. R. J. Lewis, twp. clk.

N. J., Toms River—July 15, by Bd. Freeholders Ocean Co., bituminous macadam paving 48,000 sq.yd. road in Jackson Twp., 25,100 sq.yd. road in Plumsted Twp. J. M. Abbott, co. engr.; adv. E. N.-R. July 3.

Pa., Hastings—July 9, by P. Miller, secy. Boro Council, paving Spangler St., 1,115 lin.ft. one course rein.-con. and 370 ft. 4 in. Hillside vitr. brick on concrete. I. J. Pfeister, boro engr.

W. Va., Alderson—July 11, by Common Council, paving and surfacing various streets, 10,341 sq.yd. bituminous macadam with Bermudez road asphalt binder, or bituminous macadam with oil asphalt binder incl. grading, etc., 6,138 lin.ft. concrete curb and gutter. C. E. Staton, recorder.

S. C., Denmark—July 8, by J. E. Stedman, mayor and Town Council at office J. B. Gillam, town clk., street and sidewalk pavement, $30,000. Ryan Eng. Co., Arcade Bldg., Columbia, engrs.

S. C., Walhalla—July 8, by Town Bd. Aldermen, improving various streets incl. 5,000 cu.yd. excav. and grading, 15,000 sq. yd. plain concrete, rein.-con., sheet asphalt, bitulithic or asphaltic concrete, on 5 in. concrete, 11,000 lin.ft. combination curb and gutters, also storm drains, etc. W. H. Booker, Charlotte, consult. engr.

Fla., Miami—July 9, by Comrs. Dade Co., constructing and building trestles on 13 mi. Key Largo Rd. from Florida City to Card Sound. $100,000. H. Crabtree, Miami, engr.

Fla., Seabreeze—July 9, paving about 10 mi. various streets, various types. $300,000. N. A. Hotard, Lutz Bldg., New Smyrna, engr.

Louisiana—July 8, by Sate Hy. Comn., Reymond Bldg., Baton Rouge, grading 6.69 mi. State Project 407, Livonia-Lottie Highway, Point Coupee Parish. J. M. Fourmy, ch. engr.

Louisiana—July 10, by State Hy. Comn., Reymond Bldg., Baton Rouge, gravel surfacing 6.95 mi. State Project 315 A, Natchitoches Leesville Highway, Natchitoches Parish, also furnishing gravel for project. J. M. Fourmy, ch. engr.

Louisiana—July 22, by State Hy. Dept. Reymond Bldg., Baton Rouge, 7 mi. State Project 148 A, Union Parish, also furnishing gravel for project. J. M. Fourmy, ch. engr.

Miss., Laurel—July 14 (extended date), by G. L. Lightsey, city clk., 22,000 sq.yd. brick, concrete, asphaltic concrete or rock asphalt pavement, 10,000 lin.ft. curb and gutter, 2,500 lin.ft. 6 x 12 in. concrete curb, 8,000 cu.yd. grading, 3,535 lin.ft. 8 in. sanitary sewers, 7 manholes, 2 flush tanks, etc. F. B. Ross, City Hall, engr. Noted June 26.

Ohio—July 11, by Dept. Hys. & Pub. Wks., Columbus, grading, bridging and paving 94.496 mi. roads in various counties, brick, bituminous macadam asphalt or tar, bituminous concrete, concrete or rein.-con. A. V. Donaheys, dir. highways.

O., Cleveland Heights (Warrensville P. O.)—July 7, paving Blanche Ave., Euclid Blvd., Coventry and Hampshire Rds. To exceed $50,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

O., Columbus — July 7, by Bd. Comrs. Franklin Co., grading and paving with waterbound macadam 2.57 mi. Meek and Wilson Rds., 16 ft. $59,489.

O., Columbus—July 8, by W. H. Duffy, dir. Pub. Serv., grading, paving and laying necessary water services and sewer connections, in 19,997 ft., Jaeger and Doyle Sts., Brevoort, and Torrence Rds., Belmont, 15th, Powell and Indianola Aves., also various alleys, 15 to 40 ft., brick, concrete or asphalt.

O., Upper Arlington (Columbus P. O.)—July 6, by E. D. Howard, village clk., sheet asphalt paving 5,500 sq.yd. Harford and Beaumont Rds., $19,250; 10,425 ft. Tenwick, Essex, Suffolk, Brandon, Doone and Cardiff Rds., 24 ft., $234,650; 1,175 ft. Tewsbury and Bedford Rd., 21 ft., $25,551.

Ind., Fowler—July 7, by Comrs. Benton Co. grading and graveling 2.7 mi. Klingert Rd., 24 ft. $26,078. D. Heaton, Fowler, engr. Noted June 19.

Ind., Frankfort—July 7, by Comrs. Clinton Co., grading and graveling 2.6 mi. Grace Smith Rd., 24 ft. $27,049. L. Fischer, Frankfort, engr. Noted June 26.

Ind., Goshen—July 7, by Comrs. Elkart Co., grading and graveling 17,807 ft. Husband Rd., 18 ft. $26,853. C. L. Kinney, Goshen, engr. Noted June 26.

Michigan—July 7, by State Hy. Dept. at office Comrs. Saginaw Co., Saginaw, grading and surfacing 5.995 mi. State Trunk Line Rd. 46-22, 30,839 cu.yd. excav., 66,258 sq.yd. concrete. G. C. Dillman, Lansing, ch. engr.

Michigan—July 7, by State Hy. Dept. at office Comrs. Mackinac Co., St. Ignace, grading and surfacing 2.966 mi. State Trunk Line Rd. 12-3, 8,552 cu.yd. excav., 34,677 sq.yd. concrete, etc. G. C. Dillman, Lansing, ch. engr.

Michigan—July 8, by State Hy. Dept. at office Comrs. Cass Co., Cassapolis, shaping and surfacing 2.89 mi. State Trunk Line Rd. 62-1, 30,513 sq.yd. concrete. G. C. Dillman, Lansing, ch. engr.

Michigan—July 8, by State Hy. Dept. at office Comrs. Muskegon Co., Muskegon, grading and surfacing 0.934 mi. State Trunk Line Rd. 99-1, 9,860 sq.yd. concrete, also 0.53 mi. State Trunk Line Rd. 11-9 A, 5,176 cu.yd. excav., 5,802 sq.yd. concrete, bituminous concrete or sheet asphalt. G. C. Dillman, Lansing, ch. engr.

Michigan—July 9, by State Hy. Dept. at office Comrs. Chippewa Co., Saulte Ste.

Streets and Roads (Continued)

Marie, grading and surfacing 2.225 mi. State Trunk Line Rd. 48-9, 11,262 cu.yd. excav., 20,942 sq.yd. gravel. G. C. Dillman, Lansing, ch. engr.

Michigan—July 14, by State Hy. Dept. at office Comrs. Gogebic Co., Bessemer, grading and surfacing 7.023 mi. State Trunk Line Rd. 12-28, 36,653 cu.yd. excav., 66,289 sq.yd. gravel. G. C. Dillman, Lansing, ch. engr.

Michigan—July 14, by State Hy. Dept. at office Comrs. Isabella and Gratiot Counties, Mt. Pleasant, grading and surfacing 3.779 mi. State Trunk Line Rd. 14-41, Sects. A and B, 27,179 cu.yd. excav., 39,328 sq.yd. concrete. G. C. Dillman, Lansing, ch. engr.

Michigan—July 14, by State Hy. Dept. at office Comrs. Arenac Co., Standish, grading and gravel surfacing 9.429 mi. State Trunk Line Rd. 70-1, Sect. A, 61,797 cu. yd. excav., 89,611 sq.yd. gravel. G. C. Dillman, Lansing, ch. engr.

Michigan—July 15, by State Hy. Dept., at office Comrs. Antrim Co., Bellaire, grading and concrete surfacing 0.99 mi. State Trunk Line Rd. 13-33, Sect. A, 4,146 cu.yd. excav., 11,610 sq.yd. concrete. G. C. Dillman, Lansing, ch. engr.

Wis., Kenosha—July 11, by City clk. 14,300 sq.yd. rein.-con., sheet asphaltic concrete or vertical fibre brick paving in various streets. R. M. Smith, City Hall, engr.

Wis., Milwaukee—July 9, by Bd. Pub. Wks. paving 6,363 sq.yd. Clybourn St., vibrolithic concrete, 7,251 sq.yd. National Ave., sheet asphalt, 13,446 sq.yd. in various alleys, concrete; concrete sidewalks on 3,794 sq.ft. Holten St.

Wis., Prairie du Chien—July 11, by F. R. Honzel, city clk., improving East Bluff, North Church, Main and West Bluff Sts., 17,847 sq.ft. rein.-con., vibrolithic concrete, asphalt concrete, or double seal tarvia on concrete base, 4,000 cu.yd. grading, 5,315 lin.ft. combined concrete curb and gutter, 1,225 ft. 15 and 18 in. storm sewers, etc. To exceed $25,000. A. H. Martin, City Hall, engr.

Ia., Marshalltown—July 8, by Marshall Co., paving 1.073 mi. Lincoln Highway, 11,988 sq.yd. concrete, 6,769 cu.yd. earth excav., 1,400 sta.yd. overhaul, 6,769 cu.yd. excav., etc. Iowa Highway Comn., Ames, engr.

N. D., Valley City—July 7, by W. T. Craswell, aud. Barnes Co., and State Hy. Comn., Bismarck, improving Federal Aid Project 247 B, 11,437 sq.yd. paving, 2,864 lin.ft. curb, etc. $35,000.

Kan., Mound City—July 30, by Clerk Linn Co., grading, etc., 7.25 mi. Federal Aid Project 215-A, 28 ft., 39,098 cu.yd. earth and 7,912 cu.yd. rock excav., 2,520 cu.yd. borrow, 36,460 lb. reinforcing, 568 lin.ft. 15- to 24-in. c.i. pipe, etc. C. E. Kenney, co. engr.

Kan., Olathe—July 25, by Clerk Johnson Co., grading and brick or concrete surfacing 6.267 mi. Federal Aid Project 238-D, 66,275 sq.yd. surfacing, 30,597 lb. reinforcing, 378 lin.ft. 15- to 18-in. corrugated metal pipe, 31,423 cu.yd. excav., etc., 2.755 mi. Federal Aid Project 238-B, 29,744 sq. yd. surfacing, 8,828 lin.ft. 15- to 24-in. corrugated metal pipe, 1,108 lb. reinforcing, 15,273 cu.yd. excav., etc. F. S. Pickering, co. engr. Noted June 12.

Missouri — July 8, by State Hy. Dept., Jefferson City, improving roads in various counties, grading 52.432 mi. 26 to 30 ft., concrete surfacing 8.145 mi., 18 ft., gravel surfacing 7.424 mi., 12 to 16 ft., surfacing 6.009 mi., 9 ft. concrete, 7 ft. gravel. B. H. Piepmeier, ch. engr.

Tex., Amarillo — O. A. Seward, engr., Potter Co., taking bids and opens same about July 20, paving with 3 in. brick on 5 in. concrete 1.04 mi. State Highway 33, 17 and 18 ft. $42,000. Noted June 12.

Tex., Jasper — Jasper Co. taking bids gravel surfacing 9.91 mi. road from Buna via Evadale to Neches River, 16 ft. $132,000. C. P. Hunter, co. engr.

Tex., Navasota—Election July 15, $75,000 bonds street paving. Address H. B. Stoneham, mayor.

Tex., Temple—July 14, improving various streets, 50,000 sq.yd. permanent paving and 33,000 lin.ft. curbing. $90,000. Address City Comrs. Noted June 12.

Calif., Colusa—Supervs. Colusa Co., taking bids paving Main St. in Grimes, 500 tons asphaltic concrete; improving west approach to Meridian Bridge from east end of present paving on state highway to west end of bridge, 1,090 lin.ft. grading and sub-grading, 170 cu.yd. asphaltic concrete paving, highway between Colusa and Glenn Counties, 2,610 lin.ft. grading and sub-grading, 925 tons asphaltic concrete. J. M. Felknor, co. engr.

Calif., Los Angeles—July 7, by Supervs. Los Angeles Co., improving Centre St., Somerset and Artesia Aves., 9,229 cu.yd. earth excav., 7,281 cu.yd. remove old macadam, 48,179 yd. place old macadam and disintegrated granite sub-base, 21,445 lin. ft. shape shoulders, 48,179 sq.yd. concrete paving, etc.; Santa Fe Ave. and Gould Lane, 1,915 cu.yd. excav., 1,264 cu.yd. old macadam, 11,381 sq.yd. each replace old macadam, shape roadway and asphaltic concrete top, 3,757 lin.ft. shape shoulders.

Calif., Monterey Park—See "Sewers."

Calif., Yreka—July 7, by Supervs. Siskiyou Co., graveling 3 mi. Dorris-McDoll Rd. A. J. Parrott, co. surv.

Quebec — July 4, by J. L. Boulanger, Dept. Rds., Quebec, graveling 53,461 ft. Waterloo-Newport Highway, 20 ft., in towns of Foster, St. Francois du Lac, St. Pierre, Armand W., and Waterloo.

Quebec—July 5, by J. L. Boulanger, Dept. Rds., Quebec, resurfacing with oiled waterbound macadam 31,844 ft. McMartin Montee-Little River Rd., 18 ft., Deux Mountains Co.

BIDS RECEIVED

Massachusetts — Pub. Wks. Dept., Div. Highways, State House, Boston, bituminous macadam paving 4,150 ft. highway, 20 ft., in Stoughton, from Powers Bros., North Montello St., Brockton, $25,922. W. F. Williams, comr.

Massachusetts—Pub. Wks. Dept., Div. Highways, Boston, bituminous macadam paving 4,000 ft. highway, 20 ft., in Seekonk, from B. C. Jordan, 1244 Elmwood Ave., Providence, R. I., $23,674. Engrs. est. $25,000. Noted June 19.

Mass., Roxbury (Boston P. O.)—Pub. Wks. Dept., City Hall, Boston, concrete paving Centre St. here, from J. A. Singarella, 110 High St., Boston, $63,320. Noted June 19.

New York—Bronx Parkway Comn., 72 West Pondfield Rd., Bronxville, paving Bronx River Parkway Dr. between Main St., White Plains and railroad crossing south of Valhalla, surfacing from Standard Bitulithic Co., 50 Church St., New York City, $102,245; concrete base, from Marshall Constr. Co., 1767 Bway., New York City, $144,870. Noted June 12.

New York—A. W. Brandt, comr. highways, Albany, (**e. e. means engrs. est. and R. C. means repair contract**), constructing and reconstructing 4.55 mi. St. Regis Indian Reservation, Franklin Co., from Hanratty Contg. Corp., 605 Beach Terrace, New York City, $165,414, e. e. $175,165; 2.27 mi. Union-Maine Rd., R. C. 3033, Broome Co., from D. O'Day, Binghamton, $65,205, e. e. $77,502; 4.59 mi. Pittsfort-Palmyra Rd., R. C. 1418, Monroe Co., from Rochester Vulcanite Pavement Co., Exch. Pl. Bldg., Rochester, $170,705, e. e. $186,045; 8.02 mi. Hague-Ticonderoga Rd., Warren Co., from Armstrong & Trowbridge, Middletown, $158,702, e. e. $180,513; 1.52 mi. Redwood-Alexandria Bay Rd., R. C. 3084, Jefferson Co., from F. Lux, Johnstown, $63,881, e. e. $67,848; 4.93 mi. Cleveland-Vienna Rd., Oneida Co., from Van Wirt Constr. Co., Inc., Glens Falls, $119,982, e. e. $128,992; 5.07 mi. Geneva-Canandaigua Rd., R. C. 3083, Ontario Co., from G. W. Chambers, Powers Bldg., Rochester, $208,180, e. e. $226,890; 3.98 mi. Schenectady-Rotterdam Junction Rd., R. C. 1419, Schenectady Co., from G. A. Potolski, 78 State St., Albany, $184,799, e. e. $202,077; 1.12 mi. Big Flats-Gibson Rd., R. C. 3085, Steuben Co., from W. L. and F. A. Frost, Watkins, $36,750, e. e. $39,405; 1.36 mi. Glens Falls-Lake George Rd., R. C. 1420, Warren Co., from E. J. Anderson, Menands, $70,274, e. e. $77,570; 1.34 mi. Rushville-Gorham Rd., R. C. 3086, Ontario Co., and 5.56 mi. Campbell-Bath-Savana Rd., R. C. 1417, Steuben Co., from W. L. Qollins, Hornell, $44,851, e. e. $51,420, and $222,393 respectively; 1.51 mi. New Jersey State Line-Unionville - New Hampton - Denton Rd., Orange Co., and 0.16 mi. Bridge St. in Catskill, Greene Co., from Glenbeigh Contg. Co., New York City, $34,043, e. e. $35,983, and $10,153, e. e. $10,743, respectively. Noted June 12.

N. Y., Brooklyn—E. Riegelmann, boro. pres., Boro Hall, from Cleveland Trinidad Paving Co., Flushing, permanent asphalt paving East 2nd St. $6,645, 39th St. $9,661, Montgomery St. $10,331; from Cranford Co., 52 9th St., 73rd St. $9,775, 75th St. $8,818, 79th St. $11,756, and 84th St. $8,723.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., grading, curbing, laying sidewalks and paving with granite block, etc. Jamaica Blvd. from Highway Impvt. & Repair Co., 501 Bloomfield Ave., Montclair, N. J., $5,705; also Beach 95th St., from Uvalde Asphalt Paving Co., 1 Bway., New York City, $31,135.

N. Y., New York—H. Bruckner, pres. Bronx Boro., 3rd and Tremont Aves., from C. De Blasio, 339 7th Ave., Mt. Vernon, curbing and laying sidewalks on Taylor Ave. $25,435, from I. F. Cavaluzzo, 1538 Walton Ave., curbing and sidewalks on Rochambeau Ave. $5,437; from L. De Minna, 2366 Lorillard Pl., sheet asphalt paving East 162nd St. $7,017, from Interboro Asphalt Co., 2306 Creston Ave., Morris Ave. $7,198, from Asphalt Constr. Co., 208 Bway., Briggs Ave. $21,653, from C. D. Beckwith, Inc., 21875 Bway., sheet asphalt paving Bway., $313,159; from C. Helbock, Inc., 633 Wales Ave., repaving with granite blocks Boston Rd., $234,411.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro., Boro Hall, June 26, repaving Main St., bituminous concrete, from J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $26,639.

N. Y., Utica—Bd. Contr. & Supply, paving with (**a**) concrete and asphalt (b) concrete and Warrenite bitulithic (c) asphaltic concrete (d) Warrenite bitulithic (e) concrete (f) sheet asphalt, (1) Mary St. (2) Northern Rd. (3) Whitesboro St. (4) Liberty St. (5) James St. (6) Bacon St., from H. W. Roberts Co., 622 South St., (**a1**) $23,828 (**b1**) $23,833 (c1) $24,613 (d1) $25,820 (**e2**) $8,833 (**d2**) $9,267 (**e2**) $8,801 (**e3**) $11,567 (**d3**) $12,313 (f3) $12,313 (**e4**) $4,274 (**d4**) $4,481 (**f4**) $4,481 (**a5**) $15,696 (**b5**) $15,721 (**c5**) $16,250 (d5) $17,024 (**a6**) $12,069 (**b6**) $12,099 (**c6**) $12,425 (**d6**) $13,066.

Pa., Phila.—Bureau Hys. Dept. Pub. Wks., from T. L. Flannagan, 531 East Girard St., grading Belgrade, Miller and Schiller Sts., $3,367, Collins St. $3,925, from T. Conner, 3621 North 5th St., Cottman St. $11,693, from J. Meehan & Son, 916 East Dakota St., Erie, Torresdale and Luzerne Sts. $101,482, from Root Bros., Ridge Ave. and Righter St., Houghton and Lauriston Sts. $11,729, from S. C. Ratzell, Limekiln Pike and Haines St., Sedgwick St. $1,503, from F. Mark Contg. Co., 2820 North 21st St., Vista, Whitaker and Pennway Sts. $13,921, from Barber Asphalt Co., 239 North 30th St.; asphalt paving Belmar St. $5,613, Columbia St. $8,339, Devon St. $5,500, Holbrook St. $4,964, Magnolia St. $5,504, Nedro St. $9,891, Sedgwick St. $3,369, Theodore St. $2,988, 19th St. $12,918, Eastern Paving Co., 401 Colonial Trust Bldg., Hortter and Phil-Ellena Sts. $25,802, from Union Paving Co., 30th and Locust Sts., Limekiln Pike, $14,731, Shiller St. $2,928, 1,859 tons asphalt and 1,859 tons asphalt concrete binder $20,165. Noted June 19.

Delaware—State Hy. Dept., Dover, paving, etc. 0.25 mi. Contr. 26-A, from Hercules Bridge & Constr. Co., Delaware City, $1,487; 3.8 mi. Contr. CK-23, from Sherman & Rhodes, Smyrna, $135,479; 3.48 mi. Contr. CK-19 and 3.88 mi. Contr. CS-32, from Highway Eng. & Constr. Co., Selbyville, $136,610 and $131,784 respectively; 8 ft. road grader with engine steering pole and back sloper and ditcher, Contr. RG-1, from Acme Road Mchy. Co., Frankfort, N. Y., $510. Noted June 12.

Md., Baltimore—Bd. Awards, 9,050 sq.yd. concrete paving, Contr. 259-NA, from D. Marine, 2 East Lexington St., $20,836. R. K. Compton, chn. Paving Comm. Noted June 12.

W. Va., Clarksburg—Paving Hickman and 6 other streets, from T. P. Keenan, Clarksburg, $60,143. Noted June 12.

Fla., Bartow—For 86,000 sq.yd. asphaltic concrete paving, curbs and gutters, from West Constr. Co., Volunteer Life Bldg., Chattanooga, Tenn., $232,400. Noted June 12.

Fla., Bradentown — Improving Earle Court, Bear, Oak, Stewart, Pearl, Kentucky, Lee, Alma, Orange, Stockbridge, Woodrow, New Jersey, Leonard and Chestnut Sts., to H. R. Curry, paving with vitr. brick on sand $90,000; to N. J. Trudell, Palmetto, curbing and guttering $15,000. Noted June 5.

Louisiana — State Hy. Dept., Reymond Bldg., Baton Rouge, constructing 4.28 mi. State Project 406, Amite-Franklinton Highway, Tangipahoa Parish, from J. H. Newton Constr. Co., Amite, $23,635. Noted May 29.

Louisiana — State Hy. Dept., Reymond Bldg., Baton Rouge, constructing 5 mi. State Project 379 D, Opelousas-Oakdale Highway, Evangeline Parish, from A. J. Singletary, Oakdale, $32,029. Noted June 5.

O., Cleveland—Improving (1) West 86 St. (2) East 149th St. (3) West 114th St. (4) Headley Ave. (1-4 inclusive) involves 21,910 sq.yd. asphalt or concrete, 16,460

Streets and **Roads (Continued)**

lin.ft. stone curbing, 15,180 lin.ft. 4 in. drain tile gutter, 11,500 cu.yd. excav., 21,910 sq.yd. concrete base, (5) Linn Drive (6) Calcutta Ave. (5 and 6 inclusive) involves 7,140 sq.yd. asphalt or concrete, 5,010 lin.ft. stone curbing, 2,250 lin.ft. 4 in. drain tile gutter, 6,700 cu.yd. excav., 7,140 sq.yd. concrete base, (7) East 114th St., (8) Fuller Ave. (9) Arcade Ave. (10) Aspinwall Ave. (11) West 69 Pl. (12) Park Lane, (7-12 inclusive) involves 15,500 sq.yd. asphalt, concrete or bituminous concrete, 8,920 lin.ft. stone curbing, 9,320 lin.ft. 4 in. drain tile gutter, 20,230 cu. yd. excav., from Roehl Bros., Paving Co., 7002 Dension Ave., (1) $21,982; from River Constr. Co., 2,402 Maple Side Rd., (2) $35,078 (5) $21,494; from Freshwater Constr. Co., Natl. Bldg., (3) $44,975 (4) $15,542 (11) $4,656; from H. G. Herring, Pavers Exch. (6) $20,419; from A. M. Pejsa, 3161 East Derbyshire Rd. (7) $8,367; from Garland Bros., Builders Exch. (8) $10,781; from Gould & Maybach, 16311 Saranc Rd. (9) $32,968 (10) $21,462 (11) $4,656, from Bentley Bros., 3030 Euclid Ave. (12) $9,923.

Ia., Nevada—Concrete paving, etc., about 24,500 sq.yd. various streets, to O'Rourke Eng. Co., 1215 Mulberry St., Des Moines.

Michigan — State Hy. Dept. at office Comrs. Lapeer Co., Lapeer, grading and surfacing 0.845 mi. State Trunk Line Rd. 21-21, 9,426 cu.yd. excav., 19,498 sq.yd. concrete or asphalt, from Willite Road Constr. Co., 711 Union Trust Bldg., Detroit, $54,381. Noted June 12.

Michigan — State Hy. Dept. at office Comrs. Lapeer Co., Lapeer, 1.06 mi. State Trunk Line Rd. 53-10, 9,789 cu.yd. excav., 18,042 sq.yd. concrete, from Willite Road Constr. Co., 711 Union Trust Bldg., Detroit, $46,665. Noted June 12.

Michigan — State Hy. Dept., at office Comrs. Alpena Co., Alpena, grading and surfacing 2.105 mi. State Trunk Line Rd. 10-18, B, 15,222 cu. yd. excav., 24,658 sq. yd. concrete, from J. C. Campbell, Bay City, $63,364, and 1.235 mi. State Trunk Line Rd. 10-18, C, 5,261 cu.yd. excav., 14,467 sq.yd. concrete, from E. Cosens, Levering, $29,572. Noted June 12.

Michigan— State Hy. Dept. at office Comrs. Wayne Co., Detroit, grading and surfacing 0.861 mi. State Trunk Line Rd. 17-17, 5,723 cu.yd. excav., 11,287 sq.yd. concrete, from J. Porath, Detroit, $44,937. Noted June 12.

Michigan — State Hy. Dept. at office Comrs. Eaton Co., Charlotte, grading and surfacing 1.062 mi. State Trunk Line Rd. 29-2, 12,460 sq.yd. concrete, from Banhagel Constr. Co., Ionia, $29,065; 7.618 mi. State Trunk Line Rd. 39-11, A and B, 80,890 sq.yd. concrete, etc., from J. C. O'Connor & Son, Ft. Wayne, Ind., $203,529; 4.333 mi. Federal Aid Project 100 A3, 50,844 sq.yd. concrete, etc., from Lewis & Fusinger, Albion, $141,359. Noted May 22 and June 12.

Michigan — State Hy. Dept. Lansing, grading and surfacing 1.014 mi. Federal Aid Project 100 A1 and A2, 11,486 cu.yd. excav., 12,149 sq.yd. concrete, from J. C. O'Connor & Son, Ft. Wayne, Ind., $28,039.

Michigan — State Hy. Dept. at office Comrs. Tuscola Co., Caro, grading and surfacing 0.99 mi. State Trunk Line Rd. 81-5, 3,513 sq.yd. 7 in. standard and 8,061 sq.yd. 7 in. plain concrete, etc., from Taylor Constr. Co., Birmingham, $23,175. Noted June 12.

Michigan — State Hy. Dept. at office Comrs. Roscommon Co., Roscommon, grading and surfacing 6 mi. State Trunk Line Rd. 18-18, Sect. C, 37,487 cu.yd. excav., 56,308 sq.yd. gravel, etc., from W. H. Gilliland, Gladwin, $49,620. Noted June 5.

Wis., Milwaukee—Dept. Pub. Wks., June 20, from Schwerm Bros., 50 Lee St., concrete curbing, guttering, etc., Aster St. $552; from D. H. Gumz, 831 13th Ave., paving Jackson St., granite block or sandstone $13,564, Chambers St., vibrolithic concrete $89,330, 2 alleys, concrete $8,314, from Tallmadge-Hunt Constr. Co., 445 Milwaukee St., 18th St. and Kinnickinnic Ave., vibrolithic concrete $5,923 and $58,197 respectively, from A. E. Retzlaff, 868 Island Ave., 3rd St., vibrolithic concrete, and 1 alley, concrete, $3,512 and $6,199 respectively, from F. Hilderbrand, Jr., 1040 23rd Ave., 3 alleys, concrete $18,963, from G. W. Hirth, 1309 7th St., 1 alley, concrete $640, from Parkinson Constr. Co., 322 27th St., 2 alleys concrete $6,888, from Ryback & Sadowski, 1092 2nd Ave., 1 alley, concrete, $2,811, from Kroening Constr. Co., Mitchell St. and 39th Ave., 1 alley, concrete $5,256, from F. W. Blodgett, 521 Newton Ave., 3 alleys, concrete $7,210.

Arkansas—State Hy. Dept., Little Rock, improving El Dorado-Smackover Rd., Union Co., 92,670 cu.yd. excav., 1,552 ft. 18- to 36-in. concrete culvert pipe, 42,408 ft. untreated and 75,292 ft. creosoted timber in bridges, etc., from Smith & Campbell, El Dorado, $66,261.

Tex., Palo Pinto—Palo Pinto Co. paving with vitr. brick 3.37 mi. State Highway 1, Federal Aid Project 383, 18 ft., to General Constr. Co., Cotton Exch. Bldg., Ft. Worth, $43,936; concrete curbing, to McClung Constr. Co., Cleburne, $20,661. Noted June 12.

Colorado—State Hy. Dept., Denver, (e. e. means engrs. est.), concrete paving 3.068 mi. Federal Aid Project 281-B, Boulder Co., from J. Finger & Son, 416 Patterson Bldg., Denver, $102,502, e. e. $104,298, 1.249 mi. Federal Aid Project 281-A, Boulder Co., from Sims & Boston, 3300 Adams St., Denver, $55,373, e. e. $55,293; grading 2.711 mi. Federal Aid Project 245-B, Bent Co., from W. A. Colt & Son, Las Animas, $21,680, e. e. $29,903. Noted June 12.

Calif., Hawthorne—S. V. Fraser, city clk., June 9, improving Bway., 2,218 lin.ft. grading, 18,520 sq.ft. walks, 81,305 sq.ft. 1½ in. willite surface on 3½ in. asphaltic concrete, street lighting system, etc., from G. H. Oswald, 366 East 58th St., Los Angeles, $45,308. Noted May 29.

Calif., San Rafael—City Council, June 16, improving various streets, from Raisch Impvt. Co., 46 Kearny St., San Francisco, $40,512.

CONTRACTS AWARDED

Vermont—T. W. Dix, ch. engr. State Hy. Dept., Montpelier, paving 3.03 mi. highway in Guilford, Federal Aid Project 57A, bituminous macadam on crushed rock, to D. W. Overcrocker, Brattleboro, $106,303. Noted June 12.

Massachusetts—Dept. Pub. Wks., Div. Highways, State House, Boston, bituminous macadam paving in Stoughton, to Powers Bros., North Montello St., Brockton, $25,922; in Abington, to West Roxbury Trap Rock Co., 1 Grove St., West Roxbury, $23,134; in Haverhill, to L. C. Carchia, 308 Belleview St., West Roxbury, $21,912, engrs. est. $25,000; in Wayland, to Crandall Eng. Co., Border St., East Boston, $59,392; in Sangus, to M. McDonough Co., Swampscott, $18,558, engrs. est. $25,000.

Conn., Hartford — Repairing present pavements and asphalt paving, to E. Balf & Co., 26 State St., $64,584. Engrs. est. $65,000.

Conn., New Haven—Paving Goffe St., to Connecticut Natl. Pavements, Inc., 173 Orange St. $31,290. Engrs. est. $35,000.

N. Y., St. Johnsville — Village Bd. Trustees, paving Averill, Union, Monroe, West Liberty and Washington Sts., to H. W. Roberts & Co., 622 South St., Utica, $51,913. Noted May 29.

Pennsylvania—State Hy. Dept., Harrisburg, **(R. means Route and A. Application)** to Lincoln Constr. Co., Stafford, bituminous surfacing on prepared base, 27,984 sq.yd. R. 158, Berks and Lehigh Counties, $37,779, $4,900 sq.yd. R. 215, Chester Co., $44,672, 12,384 sq.yd. R. 68, Montgomery Co., $16,714, to State Constr. Co., New Kensington, 32,889 sq.yd. A. 1824, Westmoreland Co., $42,756; to Connel, Laub & Brach, Dayton, O., rein.-con. paving 100,400 sq.yd. R. 205, Venango Co., $537,449, to J. M. Boyd, Kingston, 19,408 sq.yd. R. 4, Luzerne Co., $54,960, to Comerford Constr. Co., 5th and Sansom Sts., Phila., 54,600 sq.yd. R. 14, Susquehanna Co., $260,576, to Juniata Co., Empire Bldg., Phila., 9,703 sq.yd. A. 2436, Delaware Co., $48,274, to Meredith, McVaugh & Webb, Jamestown, 54,100 sq.yd. road in Washington Co., $288,729.

Pa., Upper Darby—S. F. Rudolph, secy. Upper Darby Twp., one course rein.-con. paving 81,000 sq.yd. Lansdowne Ave., Marshall, Garrett and Burmont Rds., to Union Paving Co., 30th St. and Lancaster Ave., Phila., $265,680 and $2 for unclassified excav. Noted June 19.

S. C., Lexington—Lexington Co. topsoiling 7.8 mi. State Project 519-A, to E. G. Martin, Covington, Ga., $44,075; 6.4 mi. State Project 519-B, to J. F. Cleckley, Cope, $42,613. Noted June 12.

La., Coushatta—See "Waterworks."

Ky., Louisville — Jefferson Co. grading, etc., lane from Preston St. Rd. to Ashbottom Rd., to H. Bickel Co., 443 Garden St., $16,000; Bush Run Rd., to Hope Constr. Co., Buechel, $14,000. Noted June 6.

Ohio—Dept. Hys. & Pub. Wks., Columbus, grading, bridging and paving with bituminous macadam, tar 1.228 mi. Sect. "Amelia" Cincinnati-West Union Rd., Clermont Co., to Craig & Jordan, Blanchester, $25,578; plain concrete 0.405 mi. Sect. "Nashville" Mansfield-Millersburg Rd., Holmes Co., to Griggs-Anderson Co., Millersburg, $8,867; Kentucky rock asphalt 0.414 mi. Sect. "B" Zanesville-New Lexington Rd., Perry Co., to E. H. Clifton & Son, McConnellsville, $11,059; brick, 0.279 mi. Sect. "1-2" Portsmouth-Columbus Rd., Scioto Co., to Coharis & Gerkins, Toledo, $27,860, 2.274 mi. Sect. "F-2" Canton-Massillon Rd., Stark Co., to Straw & Huber, Eaton, $167,430, 0.471 mi. Sect. "Smithville" Akron-Wooster Rd., Wayne Co., to Studebaker & Son, Greenville, $17,65; water bound gravel 2.386 mi .Sect. "B-2-b" and "C" Portsmouth-Lucasville Western Rd., to W. C. Brown, Chillicothe, $28,661; rein.-con. 1.873 mi. Sect. "E" New Philadelphia-Uhrichsville Rd., Tuscarawas Co., to Daley Bros., Bolivar, $43,694; bituminous macadam, asphalt 6.346 mi. Sect. "A" Salem-Warren Rd., Trumbull Co., to Laubis Stone Co., Kenton, $120,702, 3.409 mi. Sect. "C" Dayton-Lebanon Rd., Warren Co., to R. Stone Co., Lima, $78,399, 1,887 mi. Sect. "H" Athens-Logan Rd., Athens Co., 2.043 mi. Sect. "J" Athens-Logan Rd., Hocking Co., and resurfacing with waterbound macadam incl. stone 4.285 mi. Sect. "A" Lancaster-Newark Rd., Fairfield Co., to Neff & Rader, Circleville, $24,903, $24,870 and $48,105 respectively; brick (state to furnish) 2.77 mi. Sect. "A-2" Fremont-Oak Harbor Rd., Ottawa Co., to Modern Constr. Co., Fremont, $77,900; surface treating 4.49 mi. Sect. "B" Bobo-Port Clinton Rd., Ottawa Co., to L. Dehmer, Tiffin, $2,984; grading 2.685 mi. Sect. "D" Morristown-New Athens Rd., Belmont Co., to L. O. Bell & Son, West Mansfield, $26,615, 2.948 mi. Sect. "A" Salem-Warren Rd., Trumbull Co., to Laubis Stone Co., Kenton, $120,702, 2.948 mi. Sect. "H" McArthur-Athens Rd., Vinton Co., to Gaty Constr. Co., Columbus, $22,986; asphalt bridge approaches 0.083 mi. Sect. "O" Lima-Sandusky Rd., Seneca Co., to L. Jones, Kansas, $12,978. Noted June 26.

O., Akron — Bd. Control **(e. e. means engrs. est.)**, improving 0.5 mi. South Pway., 28 ft., to T. E. McAshaffrey Constr. Co., 173 South Forge St., $26,974, e. e. $28,000; paving Union St., to L. Crano, 274 Crosby St., $26,850, e. e. $28,000, 1 mi. Lovers Lane, 30 ft., and Emma Ave. 25 ft., to Hollinger & Davidson, Akron, $37,964 and $25,998 respectively, e. e. $39,000 and $30,000 respectively.

O., New Philadelphia — Tuscarawas Co. widening and resurfacing Uhrichsville Rd. between Royal and Brown bridges, rein.-con., to Daley Bros., Bolivar, $43,695. Engrs. est. $50,000. Noted June 5.

O., Xenia—Green Co. paving road on top of Huffman Dam, 5,700 ft. concrete, 6,300 lin.ft. each concrete curb and gutter, to Little & Fisher, 1209 Everett Dr., Dayton, $30,000. Engrs. est. $40,000.

Ind., Richmond—Wayne Co., concrete paving Henley Rd., to Mannix Bros., Greenville, O., $85,223. Engrs. est. $96,765. Noted June 19.

Michigan — State Hy. Dept. at office Comrs. Shiawassee Co., Corunna, grading and surfacing 1.524 mi. State Trunk Line Rd. 21-23, 7,231 cu.yd. excav., 17,910 sq. yd. concrete, to J. C. Stewart Co., Owosso, $44,935. Noted June 26.

Michigan — State Hy. Dept. at office Comrs. Ionia Co., Ionia, shaping and surfacing 3.345 mi. State Trunk Line Rd. 43-3, 31,675 sq.yd. gravel, to Todd & Montgomery, Sparta, $19,353. Noted June 19.

Michigan — State Hy. Dept. at office Comrs. Kalkaska Co., Kalkaska, grading and gravel surfacing 6.88 mi. State Trunk Line Rd. 66-17, A and B, 82,909 cu.yd. excav., 65,397 sq.yd. gravel, to Bad Axe Constr. Co., Bad Axe, $80,301. Noted June 19.

Michigan — State Hy. Dept. at office Comrs. Montcalm Co., Stanton, grading and surfacing 5.523 mi. State Trunk Line Rd. 43-4, 51,923 sq.yd. gravel, to R. Sisco, Flint, $35,107. Noted June 19.9

Michigan — State Hy. Dept. at office Comrs. Washtenaw Co., Ann Arbor, grading 3.578 mi. Federal Aid Project 67, A1 and A2, 86,549 cu.yd. excav., 12,678 lb. steel, to D. Jeffrey, Clarkston, $44,014. Noted June 26.

Michigan — State Hy. Dept. at office Comrs. Mason Co., Ludington, grading and surfacing 7.493 mi. State Trunk Line Rd. 11-61, A, 39,312 cu.yd. excav., 79,128 sq.yd. concrete, and 8.268 mi. State Trunk Line Rd. 11-61, B, 50,173 cu.yd. excav., 87,773 sq.yd. concrete, to Rogers & Monroe, Muskegon, $200,211 and $230,496 respectively; 0.999 mi. State Trunk Line Rd. 11-61, C, 7,701 cu.yd. excav., 10,553 sq.yd. concrete, to L. I. Goldberg, Scottville, $30,574. Noted June 19.

Mich., Detroit—To Detroit Asphalt Paving Co., 909 Free Press Bldg., paving with 3½ in. sheet asphalt on 8 in. concrete, Chopin Ave. $26,093, Lawton Ave. Sect. 1 $14,881, Livernois Ave. Sect. 1 $43,268, Livernois Ave. Sect. 2 $90,192, Prairie

Streets and Roads (Continued)

Ave. Sect. 1 $16,245, Tuller Ave. from Fullerton to Ford Highway subdivision $51,461, Tuller Ave. from Turner Ave. to Ford Highway subdivision, $69,020, 3rd Ave. $15,414; to Cleveland Trinidad Paving Co., 402 Hammond Bldg., Florence Ave. $21,461, Stoepel Ave. $31,675; to Cooke Asphalt Paving Co., 1260 Penobscot Bldg., Gaylord Ave. $1,250.

Mich., Detroit—To Detroit Asphalt Paving Co., 909 Free Press Bldg., grading and paving with 3½ in. sheet asphalt on 8 in. concrete, 6,300 sq.yd. Bayside Ave. $31,314, 3,600 sq.yd. Connors Ave. $18,422, 5,500 sq.yd. Luther Ave. $27,284, 5,200 sq.yd. Sanders Ave. $25,938, 850 sq.yd. Shady Lane $4,265, 7,400 sq.yd. Wildemere Ave. $39,070, 43,300 sq.yd. Warren Ave., Sect. 3 $215,611; from Cleveland Trinidad Paving Co., 402 Hammond Bldg., 8,300 sq.yd. Broadstreet Ave. $41,531; from Cooke Asphalt Paving Co., 1260 Penobscot Bldg., 8,600 sq.yd. Fairfield Ave., Sect. 2 $43,803, 3,200 sq.yd. Fairfield Ave., Sect. 3 $16,200.

Ill., Downers Grove—For 23,700 lin.ft. concrete sidewalks and 196 ft. tile drain pipe, etc., in general streets, to C. Ottenhoff, 1214 South Leavitt St., Chicago, $33,471.

Ill., East St. Louis—Concrete curbing, laying vitr. clay sewers and paving Aubuchon to Morris Ave., 6,000 sq.yd. 7-in. concrete, also paving St. Clair Ave., 2,880 sq.yd. 8-in. concrete, to Moore Bros., East St. Louis, $27,350 and $13,660 respectively.

Ill., La Grange—Grading, concrete curbing, guttering and concrete paving streets in La Grange Park Paving Dist., to W. T. Ryan, Lyons, $23,480. Engrs. est. $25,000. Noted June 12.

Ia., Cresco—Howard Co., grading, etc., primary road Projects 103 and 190, 99,744 cu.yd. excav., to Shirley Constr. Co., Omaha, Neb., $29,840.

Ia., Denison—Crawford Co., grading, etc., Project 289, to G. W. Condon, 510 Federal Reserve Bank Bldg., Omaha, Neb., 108,666 cu.yd. excav., etc., $22,809; 1,356 ft. guard rail and 193 baffle walls, to G. Cronkhite, Perry, $4,134.

Ia., Marion—Linn Co., gravel surfacing roads, to Wishard & Smalley, Charles City, 67,500 cu.yd. gravel 1 mi. haul at $0.34 per sq.yd., 135,000 units additional ½ mi. haul at $0.087. Engrs. est. $34,521. Noted Jan. 31.

Kan., Marion—Marion Co., constructing 4.269 mi. Project 216-A, to Dolman & Knode, Topeka, $33,169; 8.766 mi. Project 218-A, to Somers-Hall Constr. Co., Newton, $56,599; bridge on Project 218-A, to E. King, Hesston, $9,622. Noted June 6.

Missouri—State Hy. Dept., Jefferson City, to Gaines Bros., Fairland, Okla., grading 4.523 mi. road from Kansas City to St. Louis, $41,782, 4.083 mi. road from Kansas City to St. Louis, $25,929, 3.712 mi. road from Warrenton west, $14,588, all 34 ft., Warren Co., to Doehke-Kilkmeyer, Jefferson City, 1.753 mi. road from Barzito south 30 ft., Cole Co., $9,121, to C. F. Johnson & Sons, Buffalo, 4.944 mi.road from St. Louis to Springfield, 34 ft., Webster Co., $40,400, to Winstead & Gunther, Siloan Springs, Ark., 3.349 mi. road from Noel south, 26 ft., McDonald Co., $35,143, to Pittsburg-Des Moines Steel Co., Tuttle and Southwest 10th Sts., Des Moines, Ia., 1.15 mi. road from Chillicothe south 30 ft., Livingston, $28,526, to C. C. Powell, Montgomery City, 1.138 mi. road from Highhill east, 30 ft., Montgomery Co., $4,402, to J. T. Fox, Branson, 4.214 mi. road from Ozark east, 26 ft., Christian Co., $11,264, to Summerfield & Jones, Billings, 1.943 mi. road from Ava north, 26 ft., Douglas Co., 8,024, to J. L. Moss, Webb City, 1.163 mi. road from Elvins to Brismark, 26 ft., St. Francois Co., $11,612; to L. O. Kimball, Clear Lake, Ia., graveling 4.838 mi. road from Eldon east, 12 ft., Miller Co., $15,412, 4.045 mi. road from Hollister to Forsyth, 12 ft., Taney Co., $16,021; to Wilson Constr. Co., Warrensburg, 2.374 mi. road from Baring north and south, 16 ft., Knox Co., $17,843; to Haller & Davis, Boonville, grading 4.834 mi. road from Wright City east and west, $36,613, concrete surfacing 4.834 mi. road from Wright City east and west, $65,343, Warren Co.; to F. Kirsting & Co., Jefferson City, graveling 2.835 mi. road from Rolla south, 12 ft., Phelps Co., $24,762, grading 5 mi. road from Brazito south, 30 ft., Cole Co., $20,579; to M. Haase, Trenton, concrete surfacing 1.301 mi. road from Kansas City to Parkville, Clay Co., $16,152, grading 4.329 mi. road from Deepwater to Lowry City, 30 ft., Henry Co., $20,961, 1.301 mi. road from Kansas City to Parkville, Clay Co., $21,792; to M. E. Gillioz, Monett, grading, 12.496 mi. road from St. Louis to Springfield, 34 ft., Webster Co., $91,755, chat surfacing 5.907 mi. road from Monett to Springfield, 16 ft., Lawrence Co., $40,754, to W. F. Smith & Co., Havana, Ill., concrete surfacing 12.194 mi., road from St. Louis to Festus, 18 ft., Jefferson Co., $312,190, grading same, $14,254; to C. P. O'Reilly & Co., Wainwright Bldg., St. Louis, grading 2.889 mi. road from Greenville to Poplar Bluff, 26 ft., $16,310, graveling 2.915 mi. road from Greenville to Poplar Bluff, 12 ft., $26,156, both Wayne Co. Noted June 26.

Missouri — State Hy. Dept., Jefferson City, to H. H. Humphreys Constr. Co., Fredericktown, grading 1.957 mi. road from Marble Hill to Advance, Bollinger Co., $18,563, 1.521 mi. road from Marble Hill to Advance, Bollinger Co., $7,404, 2.836 mi. road from Sylvia east, Wayne Co., $12,908, all 26 ft., graveling 1.2949 mi. road from Coldwater north, 12 ft., Wayne Co., $9,160; to J. L. Simmons, La Plata, grading 2.998 mi. road from Lemons South, Putnam Co., $8,218, 2.106 mi. road from Milan north, Sullivan Co., $15,496, both 30 ft., to L. O. Kimball, Clear Lake, Ia., 0.17 mi. road from Elsinor west, Carter Co., $4,626, to A. L. Cook, Ottawa, Kan., 2.632 mi. road from Salisbury east, Chariton Co., $19,360, to C. Parker, Keytesville, 2.608 mi. road from Salisbury east, Chariton Co., $9,932; to S. J. Groves & Sons, Minneapolis, graveling 3.875 mi. road from Otterville east and west, 18 ft., Cooper Co., $58,617, 3.63 mi. road from Otterville to Syracuse, Cooper Co., $75,548, 4.553 mi. road from Syracuse east and west, Morgan Co., $58,168, all 18 ft., to Wagner Bridge & Constr. Co., St. Louis, 0.389 mi. road from McBride south, 12 ft., Perry Co., $5,823, to Pittsburg-Des Moines Steel Co., Tuttle and Southwest 10th Sts., Des Moines, Ia., 2.793 mi. road from Memphis east, Scotland Co., $26,262, to J. P. Sparks, Kirkwood, 3.598 mi. road from St. Charles to West Alton, St. Charles Co., $35,502; to Metropolitan Paving Co., St. Joseph, concrete surfacing 4.713 mi. road from Parkville south, Platte Co., $79,028, grading 4.713 mi. road from Parkville South, Platte Co., $4,996; to M. E. Gillioz, Monett, chat surfacing 2.532 mi. road from Lockwood east, $15,166, 2.528 mi. road from Stockton east, $12,607, both 12 ft., Dade Co. Noted June 5.

Mo., Charleston — Concrete paving Pinhoof Rd. Dist., to R. L. Williams, Charleston, $36,497. Noted June 12.

Mo., Chillicothe — Paving 13,317 sq.yd. various streets, 7 in. concrete, to W. O. Galbreath, Chillicothe, approximately $27,000.

Mo., Independence—Concrete paving 1¼ mi. various streets, to E. D. Tyner Constr. Co., Independence, $1.99 per sq.yd.

Kan., Emporia—Grading and paving 10 blocks various streets, brick on concrete, to C. J. McCoy Constr. Co., Emporia; grading and graveling 8 blocks South Ave., to Hansen & Company, Strong City.

N. D., Valley City—Bitulithic paving 8th Ave. between 1st St. and Normal Ave., and Normal Ave. between 8th and 3rd Aves., to Haggert Constr. Co., Fargo, $34,862.

Tex., Baird—Callahan Co., grading and surfacing 8.84 mi. Sect. 2 Bankhead Highway, to Jordan Constr. Co., Plainview, $137,000. Noted May 29.

Calif., Chico—Paving various streets, to Clark & Henry Constr. Co., Chancery Bldg., San Francisco, $127,491. Noted Dec. 27.

Tex., El Paso—El Paso Co. grading, surfacing with crushed rock base and bituminous topping 7.5 mi. North Loop and Ysleta Cross Rds., 18 ft., to El Paso Bitulithic Co., El Paso, $129,110. Engrs. est. $135,000.

Tex., Georgetown — Williamson Co., grading, etc., 7.11 mi. State Highway 74, Federal Aid Project 418-A, to Brown & Root, Georgetown, $47,567. Engrs. est. $48,690. Noted June 12.

Calif., Inglewood—To G. R. Curtis Paving Co., 2440 East 26th St., Los Angeles, improving Pimiento St. from Grevilea to Freeman Aves., 350,052 sq.ft. grading at $0.04 per sq.ft., 39,683 sq.ft. walks $0.19, 258,346 sq.ft. 5 in. asphaltic concrete paving at $0.17, etc., total approximately $72,578.

Calif., Los Angeles—Improving Division St. between Wollam St. and San Fernando Rd., to Curtis Paving Co., Inc., 2440 East 26th St., grading $18,600, 18,375 sq.ft. concrete $0.23, 138,897 sq.ft. warrenite bitulithic pavement $0.26, 38,444 sq.ft. walks $0.22, cement sewers 20,000, total approximataely $100,245. Noted June 26.

Calif., Santa Ana—Orange Co., paving 2 mi. Fairview Ave. between highway at Fairview and Costa Mesa, to Oglesby & Dahl, 423 Edgewood Rd., $34,160.

Calif., Santa Ana—Supervs. Orange Co., widening and 5 in. asphaltic concrete paving Orangethorpe Ave., to S. Finley, Santa Ana, $76,000.

Quebec—Dept. Provincial Highways, Quebec, graveling St. Bruno Highway, Grande Baie Co., to T. Desbiens, Chambord, $26,422; 36,660 ft. Levis-Rimouski Highway, Notre Dame du Portage Co., to Normand & Normand, L'Islet, $43,871.

Ont., Blyth—A. Patterson, engr., County Bldg., Goderich, concrete paving Queen and Dinsley Sts., to Drennan Paving Co., Hamilton, for city. Noted May 8.

Ont., St. Catherines — A. H. Trapnell, secy. Suburban Rds. Comm., 22,000 sq.yd. stone filled sheet asphalt, to Law Constr. Co., 50 Yonge St. Arcade, Toronto, $37,375. Engrs. est. $40,000. Noted June 5.

Ont., Sandwich—Concrete paving various streets, to S. P. West, 11 Sandwich St. E., Windsor, $68,379; mains, to Webster Constr. Co., 134 Carling St., London, $8,838.

Buildings—Industrial

PROPOSED WORK

N. H., Tilton — Boiler House — Tilton Seminary, had sketches made by A. S. Kellogg, archt. and engr., 89 Franklin St., Boston, Mass., 40 x 47 ft. boiler house, and 15 x 47 ft. coal pocket. To exceed $40,000.

Mass., Cambridge—Plant—Lever Bros. Co., 164 Bway., plans 2 story, 35 x 110 ft. addition. $40,000. Private plans.

Mass., East Cambridge (mail Boston)—Plant—Cambridge Gas Light Co., 719 Massachusetts Ave., Cambridge plans extending and improving steam power plant. 354 Third St., here. $40,000. Private plans.

Conn., Hartford—Factory, etc.—O. B. Herlth Co., 272 Tolland St., East Hartford, having plans prepared by E. L. Morey, 33 Rector St., East Hartford, 1 story and basement, 50 x 100 ft. factory and 25 x 35 ft. office building additions, brick and stucco, plain foundation, Tolland St. $40,000.

Conn., New Haven—Mill—E. Teitelman—L. Rudnick, 350 Congress Ave., having plans prepared by C. H. Abrahamowit, 82 Church St., 1 story, 50 x 150 ft., brick and timber, plain foundation, County St.

N. Y., Altmar—Transformer Station—Niagara, Lockport & Ontario Power Co., Lafayette Bldg., Buffalo, plans concrete, brick and steel transformer station, here. $600,000.

N. Y., Brooklyn—Plant—Kienle & Co., 109 South 4th St., having plans prepared by W. H. Gompert, archt. and engr., 171 Madison Ave., New York, brick, steel and stone addition, Dobbins St.

N. Y., New York—Plant—United Sanitary Products Co., 65 5th Ave., having plans prepared by B. Driesler, archt. and engr., 153 Remsen St., Brooklyn, 4 story, brick, steel and stone, plain foundation, Foster Ave. $150,000.

N. Y., Norwich—Plant—Sheffield Farms Co., Woods Corners, plans by-products plant. $70,000.

Fla., Bradentown — Plant — City having surveys made by J. B. McCrary Eng. Co., City and South Bank Bldg., Atlanta, Ga., gas plant. L. L. Hine, city clk.

O., Cincinnati—Substation—Union Gas & Electric Co., 4th and Plum Sts., having plans prepared by S. N. Lundy, Chicago, Ill., 1 story, rein.-con., plain foundation, 2729 Ogden St. $131,000.

Ind., Portland—Factory, etc.—Knocker Shirt & Overall Co., plans 2 story, brick factory, etc. $50,000.

Kan., Lyons—Plant—Amer. Salt & Coal Co., 1309 Weldheim Bldg., Kansas City, Mo., soon takes bids plant, 1,500 bbl. daily capacity. $1,000,000. Private plans. Noted June 12.

Tex., Bastrop—Mill—Powell Mills Co., plans cotton oil mill. $125,000. Engineer and architect not announced.

Tex., Pioneer—Plant—Philips Petroleum Corp. plans casing head gasoline plant addition, 10,000 gal. daily. $75,000.

Calif., Los Angeles — Warehouse and Factory—Hostetter Tract Holding Co., J. E. Conzelman, engr., Citizens Natl. Bank Bldg., having plans prepared 5 story, 175 x 330 ft. warehouse, and four 2 story, 300 x 1261 ft., factory buildings, all rein.-con., Penn and Pitt Sts.

Ont., Windsor—Warehouse, etc.—Western Motors Corp., Sandwich St., plans warehouse and oil storage tanks on river front $50,000.

BIDS DESIRED

Md., Baltimore—Bakery—See "Buildings Show Room and Office."

Ind., Indianapolis — Plant — Cornelius Printing Co., North Capitol Ave., taking bids 1 story; 120 x 250 ft., rein.-con., brick and steel, West Washington St. $150,000. R. N. Edwards, Union Trust Bldg., engr. Noted June 12.

Ind., Mt. Vernon—Mill—J. E. Kelley, taking bids 4 story, rein.-con. hominy mill. $150,000. Private plans. Noted June 12.

Mo., Hartville—Hydro-Electric Plant—July 7, by J. Johnson, town clk., 260 ft. masonry and concrete dam, 13 ft. high, 20 x 24 ft., power house, 42 kva. waterwheel, driven, 3 phase, 60 cycle, 2300 volt alternator and 25 hp. coal oil engine belted

Buildings—Industrial (Continued)

to 25 kva. alternator switchboard and distribution system complete. Alexander Eng. Co., Springfield, engrs.

Ore., Portland—Bakery, etc.—July 15, by Claussen & Claussen, archts., McClay Bldg., 2 story, 50 x 100 ft. bakery, office and warehouse, brick and tile, plain foundation, 1st and Market Sts., for Model Bakery, 363 1st St. $40,000.

CONTRACTS AWARDED

Mass., Brockton—Factory—Owner c/o W. F. Barlow, Jr., 80 North Main St., 3 story, 50 x 160 ft., brick addition, to G. W. Eldridge, 371 Moraine St. Archts. est. $75,000.

Mass., Lynn.—Service and Repair Shop—Stevens-Mader, Inc., 75 Exchange St., 3 story and basement, 50 x 180 ft., Mt. Vernon St., to Morris Constr. Co., Salem. Archts. est. $150,000.

Mass., South Boston (Boston P. O.)—Manufacturing and Warehouse—Kohler Co., 427 Commercial St., Boston, 5 story, 40,000 ft. floor space, 445 C St., here, to Chase & Gilbert, Devonshire St., Boston. Archts. est. $125,000.

Mass., Springfield—Plant—Westinghouse Electric & Mfg. Co., 82 Worthington St., 1 story, 110 x 160 ft. addition, Page Blvd., to E. F. Carlson Co., 244 Main St. Archts. est. to exceed $40,000.

Mass., Watertown — Warehouse and Manufacturing—F. W. Webb Mfg. Co., 50 Elm St., Boston, 1 story and basement, 60 x 100 ft., rein.-con. and brick, Arsenal St., here, to C. S. Cunningham & Son Constr. Co., 80 Boylston St., Boston. Archts. est. $40,000. Noted June 26.

Pa., Phila. — Mill — Wakefield Knitting Mills, Dell and Luzerne Sts., 2 story, 42 x 142 ft., brick, 19th St. and Hunting Park, to H. Gill, Jr., 2515 Germantown Ave. Archts. est. $45,000.

Pa., Phila.—Shop, etc.—Phila. Rapid Transit Co., 8th and Dauphin Sts., superstructures for 2 story, 65 x 130 ft., office building, 1 story, 110 x 352 ft., shop and inspection building, 1 story, 12 x 290 ft. sand handling building, with 20 x 42 ft. wing, 1 story, 80 x 164 ft., trackless trolley building, to H. E. Baton, 1713 Sansom Street.

Pa., Phila.—Dye House, etc.—Hardwick & Magee, 1220 Market St., 4 story and basement, 94 x 266 ft., brick and steel, plain foundation, Marshall St. between Oakdale and Harold Sts., to Barclay White Co., 1713 Sansom St. $400,000. Noted June 12.

D. C., Wash.—Storehouse—W. T. Galliger & Bros. Lumber Co. 30th and K Sts., new storehouse, to G. E. Wynne, Home Life Bldg., $40,000 cost plus percentage basis.

Tenn., Columbia—Plant—Southern Cities Power Co., Chattanooga, power plant and concrete dam, on Duck River, near here, to Foster-Creighton Co., 4th and 1st Natl. Bank Bldg., Nashville, approximately $100,000.

Tex., Corsicana—Mill—Clopton Planing Mill, 213 East 4th St., brick, to J. Jarson, 926 West 113th St., $75,000. Noted May 15.

Tex., Dallas—Plant—J. Schepp, 2225 South Ervay St., 3 story, 71 x 236 ft., concrete and brick, South Ervay St., to R. O. Slaughter, Linz Bldg., $45,000.

Calif., Los Angeles — Baking Plant—Davis Standard Bread Co., 5800 South Hoover St., 3 story and basement, 150 x 200 ft., concrete and brick, Mighotte St., to J. S. Metzger, 1007 South Grand Ave., $65,000. Total cost incl. structural steel, ventilating systems, etc., $115,000.

Calif., Los Angeles — Warehouse and Shops—Neptune Meter Co., 3 story and basement, approximately 117 x 135 ft., rein.-con., 3rd and Alameda Sts., to Robertson & Evans, Grant Bldg., approximately $100,000.

Calif., Oakland — Laundry — Bayless & Hawkins, 1502 38th Ave., 1 story, concrete laundry, 26th and Adeline Sts., to P. J. Herold, 718 Hearst Bldg., San Francisco, $42,000.

Calif., San Francisco—Creamery—Riverdale Creamery, Divisadero and Geary Sts., 1 story, rein.-con., Divisadero St., to H. P. Hoyt, Monadnock Bldg., $42,000.

Buildings—Commercial

PROPOSED WORK

N. H., Hanover — School — City having preliminary plans prepared by Larson & Wells, Hanover, grade school. $150,000. A. S. Kellogg, 89 Franklin St., Boston, Mass., engr.

Vt., Lyndenville—Business—Lyndenville Realty Trust, having preliminary plans prepared by Larson & Wells, Hanover, N. H., new business block. $150,000. A. S. Kellogg, 89 Franklin St., Boston, Mass., engr.

Mass., Boston—Mercantile—H. C. Davis, 68 Devonshire St., having plans prepared by Monks & Johnson, 99 Chauncy St., 6 story and basement, 88 x 95 ft., 287-293 Columbus Ave. $160,000. Weston Electric Co., lessee.

Mass., Marlboro — High School — City Building Comn. having plans prepared by C. M. Baker, 25 Arch St., Boston, Junior high school. $150,000. E. T. Simonean, chn.

Mass., Somerville—School, etc.—Church of St. Catherine of Genoa, had preliminary plans prepared by Maginnis & Walsh, 100 Boylston St., Boston, school and convent, Summer and Belmont Sts. $150,000. C. E. Morgan, chn. Noted May 29.

R. I., Arctic—Bank—Centerville Natl. Bank, plans 1 story brick and stone. $150,000. Allen & Collens, 75 Newbury St., Boston, Mass., archts.

Conn., Hartford—Office—See "Industrial Works."

Conn., Hartford—Capitol—State Building Comn., having sketches made by F. I. Cooper Corp., 172 Tremont, St., Boston, Mass., alterations and improvements to state capitol building.

Conn., Hartford — Theatre, Store and Office — Lenox Investment Co., c/o E. T. Wiley, archt., 75 Pratt St., having plans prepared 2 story and basement, 60 x 120 ft., brick, plain foundation, Albany and Sterling Sts. $150,000.

Conn., New Haven—Auditorium—H. W. Walker, Algonquin Rd., Bridgeport, plans modern sport auditorium, replacing burned Yale Arena, here. $300,000.

N. Y., Brooklyn—Theatre—E. DeRosa, archt., 110 West 40th St., New York, preparing plans brick, steel and stone, plain foundation, Church and Flatbush Aves. $1,000,000. Owners name withheld.

N. Y., Buffalo—Schools—Bd. Educ., 1400 Telephone Bldg., plans 3 new schools. $2,000,000.

N. Y., New York—Apartment—One Hundred Thirty Six West 86th St. Corp., c/o G. F. Pelham, archt. and engr., 200 West 72nd St., soon takes bids 15 story, brick, steel and stone, plain foundation, 136 West 86th St. $600,000.

N. Y., Troy—Bank—Natl. City Bank, had plans prepared by G. H. McCormick of T. Bruce Boyd, Inc., archts. and engrs., 286 5th Ave., New York City, 3 story, 50 x 130 ft., brick and steel, plain foundation, 3rd St. $200,000.

N. Y., Utica—Bank and Office—First Natl. Bank & Trust Co., had plans prepared by York & Sawyer, archts. and engrs., 100 East 42nd St., New York City, 14 story, 80 x 151 ft. brick, steel and stone, Genesee and Elizabeth Sts. To exceed $1,500,000.

Pa., Pottstown — Theater — Pottstown Theater Co., having revised plans prepared by Hoffman Henon Co., Finance Bldg., 3 story and basement, 60 x 163 ft., Charlotte and High Sts. $200,000. Former bids rejected.

N. C., Albemarle — High School — Bd. Educ., having plans prepared 3 story high school. $250,000. Engineer and architect not announced.

N. C., Charlotte—Orphanage—Episcopal Church of North Carolina plans additional buildings for Thompson Orphanage, incl. laundry, heating plant, etc. $150,000. Address E. A. Penick, Charlotte, bishop.

Fla., Key West—Hotel—C. E. Aubuchon and associates, Key West, and Miller Bonding Co., Atlanta, Ga., plan steel, Duval and Fleming Sts., $450,000.

Ky., Cloverport — Bank — Breckenridge Bank of Cloverport, having plans prepared by D. X. Murphy & Bro., Louisville Trust Bldg., Louisville, 2 story, 55 x 95 ft., brick and stone, plain foundation. $150,000.

O., Canton—Hotel—Stark Hotel Co., Canton, headed by G. Caldwell, 843 South Tremont Ave., Indianapolis, Ind., plans 12 story hotel, 3rd St. and Cleveland Ave. N.W., $500,000. J. E. Kinnison, Renkert Bldg., Canton, secy.

O., Cleveland—Apartment—A. Cook, c/o Andmar Constr. Co., 1920 Discount Bldg., had plans prepared by F. J. Paige, 10127 North Blvd., 3 story and basement, 32 x 115 ft., brick, 1564 Ansel Rd. $150,000.

O., Cleveland — Apartment — Guilford Realty Co., c/o P. Frankel, pres., 1520 Discount Bldg., having plans prepared by A. W. Harris, Discount Bldg., 6 story and basement, 88 x 200 ft., brick, Overloop Rd., $400,000.

O., Cleveland—Bank and Office—Union Trust Co., c/o G. O. McGynwinn, vice pres., Union Trust Bldg., having plans prepared 10 or 12 story, 86 x 180 ft., brick, steel and concrete, East 101st St. $1,000,000. Engineer and architects names withheld.

O., Cleveland—Commercial, Theatre and Apartment — A. Greenwald and S. H. Stecher, 535 Society for Savings Bldg., having plans prepared by N. Petti, Williamson Bldg., 1 and 2 story and basement, East 142nd St. and Kinsman Rd. $150,000.

O., Cleveland—Commercial, Theatre and Office—Empire Properties Co., c/o S. W. Manheim, pres., East 9th St. and Bolivar Rd., having plans prepared by Morris & Weinberg, 3608 Euclid Ave., 10 story, 104 x 200 ft., concrete, brick and steel, Bolivar Rd. $1,000,000.

O., Cleveland — School — St. Wendeline Roman Catholic Church, 2160 Columbus Rd., having plans prepared by W. C. Jansen, Electric Bldg., 2 story and basement, 112 x 134 ft., concrete, brick and steel, Columbus Rd. $200,000. A. Tomasek, pastor.

O., Cleveland—Warehouse—J. C. Latiner, Union Trust Bldg., having plans prepared by Miller & James Co., 504 Erie Bldg., 2 story, 120 x 140 ft., brick and steel, Oregon Ave. $150,000.

O., Warren—Temple—Pythian Temple Co., having plans prepared by Keich, Obrien & Hosker, Warren, 3 story and basement, Park Ave. $155,000.

Ill., Chicago—Hall—Trustees Art Institute, Michigan Ave., having plans prepared by H. Shaw, 39 South State St., Goodman Hall, 2 story, 100 x 150 ft., rein.-con., brick and steel, Michigan Blvd.

Wis., Racine—Hotel—E. B. Funston Co., archts., Janes Blk., preparing revised plans (1st unit) 8 story, 80 x 100 ft., brick and concrete, plain foundation, $300,000, for Friedman Hotel Corp., 505 Main St. $300,000. Former bids rejected. Noted May 15.

Wis., Waukesha—Hotel—Hotel Silurian, F. Strong, pres., had revised plans prepared by M. Tullgren & Sons, 425 East Water St., Milwaukee, 3 story and basement, concrete and brick, plain foundation. $300,000.

Kan., Hutchinson — Hospital — Directors Grace Hospital, takes bids in August or September, 3 story, rein.-con. and brick, plain foundation. $185,000. Mann & Co., 722 Rorabaugh Wiley Bldg., archts.

Kan., Lawrence — Memorial — Memorial Assn., Lawrence having plans prepared by Pond & Pond, 64 East Van Buren St., Chicago, 3 story and basement, brick. $250,000.

Mo., Kansas City — Mausoleum — Mt. Moriah Cemetery Assn., having plans prepared by R. E. Peden & Co., Armour and Troots Ave., 134 x 196 ft. mausoleum, 50 ft. high, rein.-con. and marble, 105th and Holmes Sts. $600,000.

Mo., Louisiana — Hospital — Otis Smith Hospital Fund, c/o C. G. Buffum, having preliminary plans prepared 3 story and basement, rein.-con., brick and stone. To exceed $150,000. Engineer and architect not announced.

Mo., Springfield—College—Drury College plans 2 buildings. $250,000. T. W. Nodal, pres.

Tex., San Antonio—Theatre—San Antonio Amusement Co., Bedell Bldg., having plans prepared by A. B. and R. M. Ayres, Bedell Bldg., rein.-con., brick, tile and terra cotta, Riverside St. between Houston and Travis Sts. $1,000,000.

Calif., Covina — School — Covina High School Dist. soon takes bids, 2 story and basement, rein.-con. classroom and auditorium. $150,000. Train & Williams, Exchange Bldg., Los Angeles, archt. Noted Nov. 22.

Calif., Lankershim—Hotel and Apartment—Owner represented by C. W. Hirey, 5208 Lankershim Blvd., plans 3 story and basement, 150 x 300 ft., fireproof hotel and apartments. Engineer and architect not selected.

Calif., Los Angeles—Apartments—S. H. Brown, archt., Union League Bldg., preparing plans 4 story and basement, brick and steel, 12th St. and Grandview Ave. $150,000. Owner's name withheld.

Calif., Ojai — College — Augustanian Fathers, c/o A. C. Martin, archt., Higgins Bldg., Los Angeles, had plans prepared (first 2 units), concrete, brick and hollow tile dormitory and classrooms. $150,000.

Calif., Pasadena—Church—First Congregational Church having preliminary plans prepared by L. C. Brockway, Security Bldg., and H. M. Patterson, Johnson Bldg., associate archts., fireproof, Walnut St. $350,000.

Calif., San Francisco — Clubhouse — Olympic Club, Olympic Club Bldg., having plans prepared by Bakewell & Brown, 251 Kearney St., class "A" fireproof addition, Post St. $500,000.

Calif., San Francisco—Service, Store, etc. —The Emporium, Market and Powell Sts., having plans prepared by M. M. Bruce, Flood Bldg., 10 story and double basement service building, etc., increasing main building (store), will be increased from 3 to 7 stories, fireproof, block bounded by 5th, 4th, Mission and Market Sts. $3,000,000.

Buildings—Commercial (Continued)

BIDS DESIRED

Mass., Atlantic (Boston P. O.)—Church and Chapel—Sacred Heart Parish taking bids 1 story and basement, 104 x 150 ft., rein.-con., brick, granite and stucco, Hancock St. 150,000 or more. M. P. Meade, 80 Boylston St., Boston, archt.

Mass., Brockton—Club—Knights of Columbus, Seville Council, Main St., taking bids 2 story and basement, 40 x 142 ft., with 52 x 95 ft. wing, brick, Elm St., R.R. Jackson, 86 Main St., archt. To exceed $150,000.

Mass., Methuen (Lawrence P.O.)—School—July 10, by School Comn., Central Grammar School, 2 story, 100 x 120 ft., rein.-con., brick and stone, Ditson Pl. $225,000. Ashton Huntress and Alter, 477 Essex St., Lawrece, archts. Noted June 5.

Mass., Newton — Church — July 9, by Densmore, Le Clair & Robbins, archts., Park Sq. Bldg., Boston, 2 story, 70 x 118 ft., brick and stone, here, for First Church of Christ Scientist, R. E. Alvord, treas., 1296 Washington St., West Newton.

Pa., Lancaster—High School—July 7, by J. H. McKershan, pres. School Dist. 3 story and basement, 68 x 200 ft., rein.-con. and brick, plain foundation. $250,000. C. E. Arban, Woolworth Bldg., archt.

Pa., Phila.—Apartment—July 8, by McLanahan & Bencker, archt., Bellvue Court Bldg. wings, 21 story and basement, two 45 x 135 ft. connecting wing 35 x 43 ft. brick and steel, limestone alternate terra cotta, plain foundation, 19th and Walnut Sts., for Nineteenth & Walnut St. Corp., c/o Architect. Noted May 8.

Del., Wilmington — Exchange — July 10, by J. T. Windrim, archt., Commonwealth Bldg., Phila., 1 story and basement, 108 x 190 ft., brick and steel, plain foundation, Tatnall and 9th Sts., here for Diamond State Telephone Co., c/o Bell Telephone Co., 17th and Parkway Sts., Phila. $200,000.

Ala., Birmingham—Office—July 15, by Southern Ry. Co., 13th St. and Pennsylvania Ave., Wash., D. C., 10 story, 50 x 90 ft., concrete and steel, 5th Ave. and 23rd St., here. 400,000. J. B. Akers, ch. engr.

La., New Orleans—Hotel—July 24, by Guarantee Development Co., 836 Union St., 18 story, concrete and brick, Baronne and Union Sts., for Union Indemnity Co., $1,250,000 to $1,500,000. Favrot & Livaudais, archts., and M. Goldstein, associate archt., Hibernia Bank Bldg., Noted June 12.

Ky., Louisville—Hospital—July 7 (extended date), by Bd. Tuberculosis Hospital, Board of Trade Bldg., Waverly Hills Sanatorium, 3 story and basement, 50 x 480 ft. hospital. $700,000. A. Loomis, 51 Todd Bldg., archt. Noted June 12.

Ind., Indianapolis—Selig Dry Goods Co., 20 West Washington Ave., taking bids, 7 story and 2 basements, rein.-con. and brick, Washington Ave. $500,000. Vennegut, Bohn & Muller, Indiana Trust Bldg., archt. Noted June 12.

Wis., Milwaukee—Warehouse—Hunting—Davis Co., engrs. and archts., 1150 Century Bldg., Pittsburgh, Pa., taking bids, 5 story and basement, 82 x 175 ft., concrete and brick, plain foundation, 17th and Clybourn Sts., for Standard Sanitary Mfg. Co., 311 5th St. $250,000.

Wis., Milwaukee — Synagogue — H. H. Burns, archts., 845 26th St., taking bids 2 story, 74 x 110 ft., brick and stone, plain foundation, 10th St., for Beth Israel Congregation, S. Michel, 1803 Grand Ave. $150,000.

Tex., Dallas—Church—First Methodist Church, c/o M. C. Cameron, 3800 Stratford St., taking bids superstructure 2 story and basement, 160 x 232 ft., steel and concrete. $600,000. R. H. Hunt & Co., Southwestern Life Bldg., archts. Noted May 22.

Calif., Los Angeles—Hotel—Walker & Eisen, archts., Great Republic Life Bldg., taking bids 12 story and basement, 100 x 150 ft., rein.-con., Vine St., for Stern & Danziger. Noted Apr. 3.

BIDS RECEIVED

N. J., Trenton—High School—Bd. Educ., Administration Bldg., 2 story, junior high school, general contract from J. H. Morris Co., 211 North Montgomery St., $1,027,329; plumbing, from Piper Bros., 340 North Broad St., $58,320; electric work, from Jackson Electric Co., 40 Belvidere St., $40,740; heating, from Trenton Plumbing & Heating Co., Broad and Greenwood Sts., $109,984. Noted June 5.

Mich., Detroit—Schools—Bd. Educ., 1354 Bway. Ave., 2 story and part basement, 82 x 171 ft. with 31 x 64 ft. wing, rein.-con., brick and steel, plain foundation, Hazelridge Ave., from M. A. Mahoney, 400 Penobscot Bldg., $189,000; 2 story and part basement, 82 x 171 ft. with 31 x 64 ft. wing, rein.-con., brick and steel, plain foundation, Hamburg Ave., from W. H. Mueller, 1923 Ford Bldg., $189,240. Noted June 12.

Wis., Kenosha—High School—Bd. Educ., E. F. Powers, secy., June 23, 3 story and basement, 250 x 250 ft., concrete, brick and tile, plain foundation, from Madsen & Peterson, 646 Builders Exchange, Minneapolis. $830,100. Noted June 5.

CONTRACTS AWARDED

Mass., Woods Hole—Laboratory—Marine Biological Laboratory, 3 story and basement, 100 x 210 ft. laboratory and pumping plant, near Falmouth, to G. A. Fuller Co., 131 State St., Boston. Archts. est. $600,000 incl. equipment.

Mass., Quincy—Exchange—New England Telephone and Telegraph Co., 50 Oliver St., Boston, altering and constructing 2 story and basement, 42 x 80 ft. addition, to J. C. Pitcher, Ford Point, Boston.

R. I., Providence—School—Blessed Sacrament Parish, Mount Pleasant, 2 story and basement, 80 x 150 ft., Regent Ave., to Sullivan Constr. Co., 357 Westminster St. Archts. est. $170,000.

Conn., Waterbury—Y.M.C.A., 136 West Main St., 4 story and basement, 90 x 172 ft., brick, West Main St., to Tracey Bros. Co., 52 Benedict St. Archts. est. $400,000. Noted May 25, 1922.

N. Y., Buffalo—Church—St. Vincent de Paul Parish, 15 Eastwood Pl., church, Eastwood Pl., to Linwood Constr. Co., 210 Franklin St., $500,000.

N. Y., New York—Training School—Bd. Educ., 500 Park Ave., New York Training School for Teachers, West 135th St. from Convent Ave. to St. Nicholas Terrace, to E. Diebitsch, Inc., 70 East 45th St., $1,735,000. Noted May 29.

N. J., Asbury Park—High School—Bd. Educ., 3 story and basement, 77 x 316 ft., brick, Sunset Ave. and Drury Lane, to Burke Bros., 1480 Bway., New York City, $645,000. Noted May 22.

N. J., Atlantic City—Bank—Union Natl. Bank, Kentucky and Atlantic Aves., 3 story and basement, 69 x 90 ft., steel and stone addition, to J. V. Mathis, Guarantee Trust Bldg. Archts. est. $150,000.

Pa., Phila.—Apartment—Hoffman-Henn Co., archts., Finance Bldg., three 3 story and basement, 46 x 104 ft. (connected), brick and steel, plain foundation, Bryn Mawr and city line, to J. R. and J. A. Whelen, 2028 West Tioga St., $275 000. Owners name withheld. Noted Jan. 24.

Pa., Phila.—Garage—Berroden Auto Supply Co., 713 North Broad St., 3 story and basement, 67 x 130 ft., brick and steel, plain foundation, Broad and Oliver Sts., to Turner Constr. Co., 1713 Sansom St. $150,000.

N. C., Durham—Hotel—Citizens Hotel Corp., 16 story, 131 x 131 ft., steel and concrete, to Blackford Co., Durham, $1,000,000.

N. C., Raleigh — High School — School Com., 3 story, brick, to W. B. Barrow & Son, Merchants Bank Bldg., Raleigh, $200,000. Noted May 15.

La., Shreveport—Mercantile—F. L. Dyer & Co., 2 story, 68 x 150 x 170 ft., rein.-con., and brick, Texas and Allen Aves., to A. Delatte, 2048 Linn Ave. Archts. est. $150,000.

O., Cleveland—Apartments—M. Margolin, 548 East 118th St., two 3 story and basement, brick, Hampton Rd., to Harris & Meckler, 9400 Adams Ave. Archts. est. $250,000.

O., Columbus—Apartment—C. F. Bowen, 344 East State St. 11 story and basement, 45 x 62 ft., concrete and brick, 340 East State St., to E. H. Lathem Co., 60 East Broad St. Cost plus percentage basis. Archts. est. $350,000. Noted May 22.

O., Dayton — Store and Office — Westminster Building Co., 2 story, rein.-con. and brick, plain foundation, 3rd and Ludlow Sts., to H. R. Blagg Co., 1229 East 3rd St., $245,000.

O., Portsmouth — Bank — Bd. Trustees First Natl. Bank, general contract 8 story and basement, 30 x 175 ft. concrete, brick and steel addition, to C. A. Gardiner, Portsmouth, plumbing and heating, to Smith Watkins Co., Portsmouth. Archts. est. $200,000. Noted June 5.

Ind., Indianapolis — Memorial — Indiana World War Memorial Structures, c/o M. S. Sonntag, pres., for Building "B" (of 1st group), 4 story and basement, 60 x 150 ft., brick, steel and stone, to Craig-Curtiss Co., 4614 Prospect Ave., Cleveland, O. Archts. est. $200,000. Noted Apr. 17.

Wis., Milwaukee — Church — Luther Memorial Church, O. Engelbrecht, pastor, 429 Beverly Rd., 2 story, 66 x 120 ft., brick and stone, plain foundation, Maryland Ave., to P. Riesens Sons, 1012 Humboldt Ave. Archts. est. $150,000.

Wis., West Allis—Church—Holy Assumption Congregation, J. Burbach, pastor, 557 63rd Ave., 2 story, 62 x 160 ft., brick and stone, plain foundation, 65rd Ave., to Pfeifer Constr. Co., 586 66th Ave. Archts. est. $150,000.

Mo., St. Louis—Convent—Convent Good Shepherd, 3801 Gravois Ave., 4 story and basement, rein.-con., brick and stone addition, to J. Grewe Constr. Co., 3520 Chippewa St. Archts. est. $250,000.

Mo., St. Louis — Mercantile-Ralston Purina Co., 800 South 8th St., general contract 6 story and basement, 52 x 120 ft., rein.-con. and brick, to Woermann Constr. Co., Syndicate Trust Bldg. Engrs. est. $200,000.

Tex., College Station — Gymnasium — —Texas A. & M. College, 120 x 170 ft., brick, concrete and steel, to J. E. Johnson Constr. Co., Amicable Bldg., Waco, $150,000. Noted Apr. 3.

Tex., Dallas—Apartment and Store—A. F. Korn, Thomas Bldg. (owner and archt.), will build 2 story, 70 x 100 x 400 ft., L shaped, brick, Greenville Rd. and Gaston Ave., by day labor. $150,000.

Tex., Houston—Warehouses—Navigation Dist., c/o H. L. Washburn, co. aud., two 1 story, one 460 ft., and other 480 ft. long, rein.-con. to D. Hall, 520 Cotton Exch. Bank Bldg., $498,156; 100,000 gal. tank and tower, to Southern Engine & Pump Co., 615 Washington St., $6,951. Engrs. est. $500,000.

Calif., Los Angeles—Stores and Offices—Amer. Security Co., 1015 Security Bldg., 5 to 8 story (ultimately 12 story), rein.-con., Flower and 10th Sts., to Milwaukee Building Co., Wright-Callendar Bldg., approximately $450,000.

Federal Government Work

PROPOSED WORK

Ky., Uniontown—Lumber—U. S. Engineer, P. O. Box 72, Louisville, plans to purchase 2,580 pieces 2 x 12 in. x 22 ft. and 1,250 pieces 2 x 12 in. x 16 ft. yellow pine for concrete forms at Dam 49, Ohio River, here.

Calif., Crescent City—Breakwater—U. S. Engineer Office, Custom House, San Francisco, making plans furnishing stone and constructing breakwater, here.

BIDS DESIRED

N. Y., Tupper Lake—Walks, etc.—July 22, by U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., constructing and finishing covered walks and pipe tunnel at U. S. Veterans Hospital 96, here; adv. E. N.-R. July 3.

Tenn., Memphis—Brush and Poles—July 23, by U. S. Engineer Office, War Dept., Wash., D. C., furnishing 65,000 cords brush and poles for 1st and 2nd Mississippi River Comn., here.

Mich., Pontiac—Boiler, etc.—July 11, by Treas. Dept. at office Supervising Archt., Wash., D. C., removing present boiler, etc., and installing one horizontal smokeless fire box heating boiler, etc., at U. S. Post Office, here; adv. E. N.-R. July 3.

Wyo., Casper—Post Office—July 17, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling and enlarging post office here; adv. E. N.-R. July 3.

Mo., St. Louis—Barges—July 10, by U. S. Engineer, 428 Custom House, furnishing 6 steel barges.

Texas—Dredging—July 28, by U. S. Engineer Office, Galveston, dredging channel between Port Aransas and Corpus Christi; adv. E. N.-R. July 3.

H. T., Honolulu—Chute—Sept. 2, at office Custodian of Post Office, Honolulu, and at office Superintendent of Construction, Room 403 Post Office, San Francisco, Calif., mail chute in U. S. Post Office, Custom House and Court House, here; adv. E. N.-R. July 3.

H. T., Pearl Harbor—Steel Water Tank—Spec. 4992—Aug. 13, by Bureau Yards & Docks, Navy Dept., Wash., D. C., elevated steel water tank at Naval Station, here.

BIDS RECEIVED

Mass., Rutland—Hospital—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., constructing and finishing 7 buildings at U. S. Veterans Hospital 89, here, from Murch Bros., 1856 Ry. Exch. Bldg., St. Louis, Mo., $161,725. Noted May 29.

R. I., Newport—Roof—Spec. 4994—Bureau Yards & Docks, Navy Dept., Wash. D. C., roof of seamanship building at Naval Training Sta., here, from Rowley Constr. Co., Pawtucket, (1) $11,978 (2) $3,000 (3) $6,500 (4) $11,779 (5) $2,900 (6) $6,400 (7) $375. Noted June 19.

N. Y., New York—Building—Spec. 4976—Bureau Yards & Docks, Navy Dept., Wash, D. C., remodeling buildings and garage, here, from Charles Mead Co., 217 14th St. (1) $122,000 (2) add $3,000 (3) add $3,900 (4) deduct $510 (5) $5,000 (6) $3,000 (7) $19,500 (8) $510. Noted June 19.

Federal Government Work (Continued)

Md., Federal Park—Buildings, etc.—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., constructing buildings at U. S. Veterans Hospital, here, from A. Blair, 11 St. Lawrence St., Montgomery, Ala., (1a) $446,522 (b) $65,989 (c) $9,955 (d) $61,822 (e) $6,194 (6a) $8,515 (b) $1,618, (7a) $0.75, (b) $4, (c) $12 (d) $14 (e) $0.50 (f) $0.95 (g) $0.50 (h) $25 (i) $0.20 (j) $0.40 (k) $1 (l) $0.20 (m) $0.20, from C. D. Taylor, 17 South King St., Hampton, Va., plumbing (11a) $55,000 (b) $6,538 (c) $230 (d) $5,855, heating $60,000. Noted May 29.

D. C., Bellevue—Pier—Spec. 4983—Bureau Yards & Docks, Navy Dept., Wash., D. C., repairs to wooden pier, from T. A. Patterson, 411 West 13th St., Norfolk, Va., (1) $3,696 (2) $17.50 (3) $3.25 (4) $120 (5) $180 (6) $60 (7) $125. Noted June 5.

Va., Norfolk—Alterations—Spec. 4951—Bureau Yards & Docks, Navy Dept., Wash., D. C., alterations to main building at Naval Hospital, here, from H. M. Lucas, 115 Bruce St., Portsmouth, Va., (1) $41,841 (2) add $125 (3) add $1,500. Noted June 19.

Va., Norfolk—Roads and Walks—Spec. 4996—Bureau Yards & Docks, Navy Dept., Wash., D. C., roads, walks and grading at Naval Hospital, here, from W. W. Thompson Cement Paving & Constr. Co., 857 West 46th St., Norfolk, (1) $27,708 (2) $27,958 (3) $24,408 (4) $1,370 (5) $7,510 (6) $1,162 (7) $375 (8) $875. Noted June 19.

Va., Quantico — Bridge — Spec. 4987 — Bureau Yards & Docks, Navy Dept. Wash., D. C., resurfacing bridge at Marine flying field from Carapenter & Petrie, 519 Citizens Bank Bldg., Norfolk, (1) $14,000, 100 days, (2) $15,723, 67 days. Noted June 5.

Miss., Gulfport—Mess Hall, etc.—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., mess hall addition, roads and walks, etc. at U. S. Veterans Hospital 74, here, from A. C. Samford, 24 Galena Ave., Montgomery, Ala., (1) $22,450 (2) $26,000, (3) deduct $3,525. Noted May 29.

CONTRACTS AWARDED

N. Y., New York—Dredging—U. S. Engineer Office, War Dept., Wash., D. C., dredging and rock removal in New York and New Jersey channels near Shooters Island, here, to Great Lakes Dredge & Dock Co., 17 Battery Pl., $327,756. Noted June 5.

Pa., Pittsburgh — Generating Plants — U. S. Engineer Office, War Dept., Wash., D. C., 2 hydro electric generating plants, here, to Hoppes Water Wheel Co., Springfield, O., $7,570. Noted May 15.

Ala., Florence—Gravel, Steel Rods, etc.—U. S. Engineer, Florence, furnishing 1,500 tons gravel, to Underwood-Walker Co., Jefferson Co. Bank Bldg., Birmingham, Ala., $1,365; steel rods, channels, I beams, etc., Items 1, 2 and 5-8 inclusive, to Keith-Simmons & Co., 13 Cummins Sta., Nashville, Tenn., $2,078; Items 3 and 4, to Tennessee Coal, Iron & R.R. Co., Birmingham, $6,774; 2,500 cross-ties 8 ft. long, 6 in. thick and 8 in. wide on face, to S. C. Ewing & Co., Stahlman Bldg., Nashville, Tenn., $1,150.

Ala., Florence—Operating Machinery—U. S. Engineer Office, War Dept., Wash., D. C., operating machinery for regulating gates, here, to Hardie-Tynes Mfg. Co., 800 North 28th St., Birmingham, $114,376.

Okla., Fort Sill—Hospital Ward—War Dept. at office Constructing Quartermaster, Fort Sill, 2 story, 34 x 48 ft. hospital ward, here, to National Constr. Co., 810 H Ave., Lawton. Noted May 29.

Unclassified

PROPOSED WORK

Playground — Dorchester (Boston P. O.), Mass—Park Dept., 33 Beacon St., plans playground, Almont St., on land known as "Collins Field," here. $32,500. J. B. Shea, chn.

Playground — East Boston (Boston P. O.), Mass.—Park Dept., 33 Beacon St., Boston, plans playground, Grove and Porter Sts., here. $50,000. J. B. Shea, chn.

Playground—Roxbury (Boston P. O.), Mass.—Park Dept., 33 Beacon St., plans playground, Massachusetts Ave., Proctor and Shirley Sts., here. $100,000. J. B. Shea, chn.

Playground — West Roxbury (Boston P. O.), Mass.—Park Dept., 33 Beacon St., Boston, plans playground, Wachusett St., here. $27,000. J. B. Shea, chn.

Gas. Pipe Line—New York—Adirondack Power & Light Co., 511 State St., Schenectady, making plans and surveys laying approximately 15 mi. 12 in. gas pipe line from Troy Coke & Iron Co. plant in Troy to intersection of Albany and Edvard Sts., Schenectady.

Electric Light System—Alexandria Bay, N. Y. — Special Com. of Property Owners plans private extensions of electric light system. $30,000-$50,000. Address W. H. Warburton, Thousand Island House.

Park—Largo, Fla.—Voted $30,000 bonds for constructing park.

Grain Elevator—Clarksville, Tenn.—Dixie Milling Co., plans grain elevator, 30,000 bu. capacity. $25,000.

Overhead Crossing — Nashville, Tenn. — City and Louisville & Nashville R.R. Co., Union Station, plan rein.-con. overhead crossing at Chestnut St. $30,000. Cost to be borne by city and railroad. W. H. Courtnay, ch. engr.

Grain Elevator—Milwaukee, Wis.—Chicago, Milwaukee & St. Paul Ry., 80 East Jackson Blvd., Chicago, Ill., plans rebuilding 70 x 200 ft. grain elevator, rein.-con., plain foundation, 6th Ave., recently destroyed by fire. Architect and engineer not selected.

Grand Stand—West Allis, Wis.—State Dept. of Agriculture, Madison, having revised plans prepared by A. Peabody, Madison, grand stand addition, State Fair Park, here. $145,000. Former contract rescinded. Noted June 12.

Flood Control, etc. — Edinburg, Tex. — Hidalgo Co. voted $1,600,000 bonds flood control improvements, levees, etc., for reclamation and conservation in Rio Grande River Valley. A. A. Stiles, Austin, state reclamation engr. Noted June 5.

Traffic System—Ft. Worth, Tex.—Plans extending electric traffic system. $25,000. D. L. Lewis, city engr.

Wharf, etc. — Houston, Tex. — Armour Packing Co., Ship Channel, had plans prepared 40 x 50 ft. creosoted timber wharf, 115 ft. steel piling bulkhead, 300 ft. timber bulkhead. To exceed $25,000 with backfilling. R. J. Cummins, Bankers Mortgage Bldg., engr.

Grain Elevator — Los Angeles, Calif. — Sunset Milling & Grain Co., Central Bldg., had plans prepared 75 x 150 ft. grain elevator, approximately 115 ft. high, rein.-con., Clarence St. $85,000. Burrell Eng. & Constr. Co., 513 West Jackson Blvd., Chicago, Ill., engrs.

Lighting System—Los Angeles, Calif.—See "Streets and Roads."

Park Improvements—Oakland, Calif.—City plans to expend $214,000 for new park improvements and $175,000 park maintenance. E. K. Sturgis, city clk.

Park Improvements—Palo Alto, Calif.—Defeated $80,000 bonds for park improvements. J. F. Byxbee, Jr., city engr. Noted May 8.

Fire Alarm System, etc. — Stockton, Calif.—Voted $346,000 bonds, to purchase fire equipment (motor) and install fire alarm system throughout city. W. B. Hogan, city engr. Noted May 22.

Exhibition — San Bernardino, Calif. — De Witt Mitcham, archt., 456 E St., soon takes bids approximately 150 x 180 ft. exhibition building for San Bernardino Co. Orange Show Assn. B. L. Holmes, pres.

Flood Control—Stockton, Calif.—Voted $1,500,000 bonds for flood control project. W. B. Hogan, city engr. Noted Feb. 21.

Park Improvements—Stockton, Calif.—Voted $137,900 bonds for park improvements. W. B. Hogan, city engr. Noted May 22.

BIDS DESIRED

Heating System—Boston, Mass.—July 1, by Schoolhouse Dept., City Hall, heating system in Horace Mann School, Exeter and Newbury Sts. T. P. Glynn, chn.

Dikes, Bulkheads, etc.—Brooklyn, N. Y. —July 6, by J. A. Delaney, comr. Docks, Pier A, foot of Battery Pl., New York, dikes, bulkheads and dredging channel from Berdag at Basin to point 550 ft. east of Rockaway Parkway, Jamaica Bay, here, Contr. 1826.

Grain Elevator—Vancouver, B. C.—July 10, by W. G. Stickney, acting secy. Vancouver Harbor Comrs., 1,000,000 bu. storage addition to Elevator 1. Noted June 5.

BIDS RECEIVED

Heating and Ventilating, etc. — Asbury Park, N. J.—See "Buildings."

Heating, Plumbing, etc.—Trenton, N. J. —See "Buildings."

Woodwork—New Orleans, La.—Bd. Port Comrs., 200 New Court House Bldg., woodwork on new Claibrone St. dock on Navigation Canal, from A. P. Boh & Co., 417 Baronne St., $65,287.

Electric Light System—Kewanee, Ill.—General contract electric light distribution system, etc., from Connor Constr. Co., Kansas City, Mo., 38,510.

Heating, etc. — St. Louis, Mo. — See "Buildings."

Street Lighting—Hawthorne, Calif.—See "Streets and Roads."

CONTRACTS AWARDED

Rock Crushing Plant — West Roxbury (Boston P. O.), Mass.—W. J. Barry will build rock crushing plant, Ashland St., here, by day labor. To exceed $40,000.

Hydro Electric Development—Ballston Spa, N. Y.—Bd. Supervs. Saratoga Co., power house and pipe line, to Hyatt & Stockham, East Greenwich, $22,550, plant equipment and transmission lines, to W. T. Wyman, Albany, $10,388, steel water tank to Chicago Dredge & Iron Wks., Chicago, Ill., $6,300.

Waterproofing Track Floors — Brooklyn, N. Y.—Transit Comn., 49 Lafayette St., New York, reconstructing waterproofing track floors at stations of Route 39, Sect. 2, Agreement "CZ," here, to Charles Mead & Co., 217 West 14th St., New York, $33,210. Noted June 5.

Electric Control System—Syracuse, N. Y. —Bd. Contr. & Supply, electric traffic control system, to Syracuse Lighting Co., 421 South Warren St., about $125,000.

Heating Plant and Ventilating Equipment—Raleigh, N. C.—School Com. heating plant and ventilating equipment in Hugh Morson High School, to Amer. Heating & Ventilating Co., Allen Bldg., Raleigh, $25,000.

Subway—Memphis, Tenn.—Bellevue Subway, to Gauger-Korsmo Constr. Co., U and P Bldg., Memphis, and Exchange Bank Bldg., St. Paul, Minn. Noted Aug. 23, 1923.

Heating and Plumbing — Portsmouth, O.—See "Buildings."

Sheds—Houston, Tex.—Harris Co. Navigation Dist., Court House, two 150 x 480 ft. and one 150 x 460 ft., concrete cotton sheds, at Turning Basin on Ship Channel, to D. Hall, 110½ Main St., $498,156.

Arena — Kingston, Ont. — Queens University, Kingston, general contract for arena, to McLaughlin & Wright, Kingston, $90,000, artificial ice plant, to Linde Canadian Refrigeration Co., Ltd., Crown Bldg., Toronto.

Material and Equipment

PROPOSED WORK

Sweeper—Bakersfield, Calif.—City plans to purchase motor street sweeper. Cost not to exceed $6,850. V. Van Riper, city clk.

BIDS DESIRED

Conveying Machinery — West Roxbury (Boston P. O.), Mass.—W. J. Barry, Ashland St., taking bids conveying machinery to feed rock crusher.

Tar—New York, N. Y.—July 10, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., 50,000 gal. tar for patching (hot application).

Vitr. Terra Cotta Pipe, etc.—Baltimore, Md.—July 2, by Bd. Awards, vitr. terra cotta sewer pipe, Contr. 47, also gate valves, sluice gates, operating stands, etc., Contr. 45, to Highways Engineer Dept. B. L. Crozier, hy engr.

Pipe—Dallas, Tex.—Taking bids approximately 15,000 ft. 12 ft. 36 in. Class A, c.i. pipe, and miscellaneous specials. E. A. Kingsley, city engr.

Metal Street Signs—Ft. Worth, Tex.—July 8, by City Comn., 3,000 ornamental metal street signs with standards. D. L. Lewis, city engr.

Road Gravel — Houston, Tex. — Taking bids 7,000 cu.yd. road gravel and 2,800 cu. yd. mud shell. J. C. McVea, city engr.

Trucks and Trailers—San Jose, Calif.—July 7, by Supervs. Santa Clara Co., one or more trucks and trailers with dump bodies. H. A. Pfister, co. clk.

BIDS RECEIVED

Asphalt, etc.—Phila., Pa.—See "Streets and Roads."

Road Grader — Delaware — See "Streets and Roads."

Steel Doors—Houston, Tex.—Navigation Dist., c/o H. L. Washburn, co. aud., rolling steel doors for warehouses, from J. G. Wilson, Corp., 11 East 36th St., New York City, $24,269. See item under "Buildings."

CONTRACTS AWARDED

Road Oil—Milwaukee, Wis.—Central Bd. Purchases, approximately 180,000 gals. special asphaltic road oil, to Camden Petroleum Co., 232 South Clark St., Chicago, $0.10 per gal.

Motor Equipment — Stockton, Calif. — Voted $26,300 bonds to purchase motor equipment for Engineering Dept. W. B. Hogan, city engr. Noted June 26.

Power Plant Equipment — Point Grey, B. C.—University of British Columbia, 10th and Willow Sts., Vancouver, one 265 hp. Kidwell and one 265 hp. Sterling boilers, with automatic stokers, one 265 hp. Babcock Wilson boiler with natural draft stoker, coal conveying plant, pumps, etc., to Barr & Anderson, 1060 Homer St., Vancouver, $162,500.

OFFICIAL PROPOSALS

Bids: July 21

Road Work

STATE OF NEW JERSEY
STATE HIGHWAY COMMISSION
Trenton, N. J.

NOTICE IS HEREBY GIVEN that sealed bids will be received by the State Highway Commission of New Jersey for the following.

Construction of Route No. 5, Section No. 14, Lawrence Avenue, Springfield, in the County of Union. Estimated 2,326 cu.yds. earth excavation; 100 cu.yds. rock foundation; 4,880 sq.yds. double line reinforced concrete pavement; 3,740 sq.yds. plain cement concrete pavement.

Bids for the above will be received at the office of the State Highway Commission, 9th floor, Broad Street Bank Building, Trenton, New Jersey, on Monday, July 21, 1924 at eleven o'clock (11:00 a.m.) Standard Time, and will be opened and read immediately thereafter.

Drawings, specifications and form of bid, contract and bond for the proposed work are on file in the office of the State Highway Department, Trenton, New Jersey, and may be inspected by prospective bidders. Plans will be furnished on a deposit of Ten Dollars ($10.00) upon application to the State Highway Department, Room No. 901, Broad Street Bank Building, Trenton, New Jersey. Bids must be made on the standard proposal forms in the manner designated in the 1924 specifications and must be enclosed in sealed special addressed envelopes bearing the name and address of the bidder and the name and section of the route on the outside, and must be accompanied by a certified check drawn to the order of the Treasurer of the State of New Jersey for not less than ten per cent (10%) of the amount of the bid, provided that the said certified check shall not be less than $500.00 nor more than $20,000.00 and be delivered at the above place on or before the hour named. Copies of the standard proposal form and special addressed envelopes will be furnished on application. Bids not enclosed in special addressed envelopes will be considered informal and will not be opened.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the provisions of the said specifications, conditioned for the faithful performance of the provisions of the contract and specifications. Each bidder must also accompany his bid with a Statement of Equipment properly filled out.

By order of the State Highway Commission.

A. LEE GROVER,
Secretary.

Bids: July 21.

Sewer Construction

South Coatesville, Pa.

Sealed proposals addressed to the Borough Council of South Coatesville and marked "Bids for the Construction of Sewers, Contract No. 1," will be received at the office of the Borough Secretary, Borough Hall, South Coatesville, until 8 o'clock p.m., July 21, 1924, at which time and place they will be publicly opened by the Borough Council.

The estimate of principal items is as follows:

6,781 ft. of 8 in. sewer.
432 ft. of 10 in. sewer.
2,247 ft. of 12 in. sewer.
42 manholes.

Plans and specifications may be examined at the office of the Borough Secretary. Copies of the plans and specifications may be obtained at the rate of ten (10) dollars per set which sum will be refunded upon the return of the plans and specifications in good condition on or before the time of opening bids.

A certified check of the bidder on a clearing house bank, made payable to the Treasurer of the Borough of South Coatesville, Pa., in the sum of fifteen hundred (1,500) dollars will be required with each bid.

The Borough Council reserves the right to reject any or all bids.

Bids: Sept. 15, 1924.

Morwell Power Scheme

Specification No. 24/38
STATE ELECTRICITY COMMISSION OF VICTORIA
Melbourne, Victoria, Australia.

Tenders are hereby invited for the supply, delivery, etc., of the following for the Morwell Power Scheme.

Copies of Tender Form and Specification will be available upon application to:

Office of the Bureau of Foreign & Domestic Commerce, United States Department of Commerce, First National Bank Building, CHICAGO, and

Office of the Bureau of Foreign & Domestic Commerce, United States Department of Commerce, 734 Customs House, NEW YORK CITY.

SPECIFICATION NO. 24/38—BUSHING INSULATORS FOR 6,600 V. TRIFURCATING BOXES.

CHARGE:—£2:2:0 for the first three copies of Tender Form, Conditions of Contract and Specification complete. This charge will be returned on receipt of a bona fide tender. A fourth copy and any further copies will be supplied for the sum of 10/6d each. This charge is not returnable.

PRELIMINARY DEPOSIT:—A Preliminary Deposit of £10:0:0 is to be lodged with Tender.

The Specification may be inspected at the above mentioned offices.

The Commission does not bind itself to accept the lowest or any tender.

Tenders on prescribed form, properly endorsed and addressed, must be delivered to the undersigned in Melbourne not later than 5 p.m. on 15th September, 1924.

R. LIDDELOW,
Secretary.

Bids: July 21.

Bridge Work

STATE OF NEW JERSEY
STATE HIGHWAY COMMISSION
Trenton, N. J.

NOTICE IS HEREBY GIVEN that sealed bids will be received by the State Highway Commission of New Jersey for the following:

Repair of three timber fenders, comprising a middle fender 380 feet long and 61 ft. 6 in. wide, and two side fenders each about 160 feet long, including the driving and repair of piling; removing and replacing of caps, waling, sheeting, etc.; and the new construction of 55 feet of the middle fender; for the bridge over the Passaic River at M. P. 56.7 on State Highway Route No. 1, Counties of Essex and Hudson.

Bids will be received at the office of the State Highway Commission, 9th floor, Broad Street Bank Building, Trenton, New Jersey, on Monday, July 21, 1924, at eleven o'clock (11:00 a.m.), Standard time, and opened and read immediately thereafter.

Drawings, specifications and form of bid, contract and bond for the proposed work are on file in the office of the State Highway Department, Trenton, New Jersey, and may be inspected by prospective bidders. Plans will be furnished on a deposit of Ten Dollars ($10.00) upon application to the State Highway Department, 9th floor, Broad Street Bank Building, Trenton, New Jersey. Bids must be made on the standard proposal forms in the manner designated in the specifications and must be enclosed in sealed special addressed envelopes bearing the name and address of bidder and name and number of the bridge on the outside, and must be accompanied by a certified check drawn to the order of the Treasurer of the State of New Jersey for not less than ten per cent (10%) of the amount of the bid, provided that the said certified check shall not be less than $500.00 nor more than $20,000.00 and be delivered at the above place on or before the hour named. Copies of the standard proposal form and special addressed envelopes will be furnished on application. Bids not enclosed in special addressed envelopes will be considered informal and will not be opened.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the provisions of the said specifications, conditioned for the faithful performance of the provisions of the contract and specifications. Each bidder must also accompany his bid with a Statement of Equipment properly filled out.

By order of the State Highway Commission.

A. LEE GROVER,
Secretary.

Bids: July 14.

Storm Sewer Extensions

Daytona, Florida.

Sealed bids addressed to Miss L. E. Hough, City Clerk, Daytona, Florida, will be received at the City Hall up to 10:00 a.m. on July 14th, 1924, for the construction of storm sewer extensions. The Contract embraces the storm sewer extensions including approximately 9,000 feet of 10" to 30" vitrified clay or cement concrete pipe, 800 feet of cast iron pipe, numerous manholes and inlets, culverts, castings, specials and fittings, and the performance of other incidental work.

Bids shall be accompanied by certified checks payable to Miss L. E. Hough, City Clerk, for amounts of five per cent of the bids, to be forfeited as Liquidated Damages by any bidder who is awarded a contract and who fails promptly to execute the contract and bond. Certified checks will be returned to the bidders upon execution of contract and bond, or sooner, upon action of proper authorities. The Purchaser reserves the right to reject any and all bids and to waive informalities. Bids shall be based upon plans and specifications now on file in the office of the City Manager at Daytona, and in the office of Harrington, Howard and Ash, Consulting Engineers, Kansas City, Mo. Copies of plans and specifications may be secured from the Consulting Engineers by depositing $25.00. These plans shall be returned and $15.00 will be refunded.

A bond satisfactory to the Purchaser in the full amount of the value of each contract will be required.

L. E. HOUGH,
City Clerk.

Bids: July 17.

Repairs to Roof

CORNELL UNIVERSITY
Ithaca, N. Y.

Sealed proposals for Repairs to Drill Hall Roof, Cornell University, Ithaca, N. Y., will be received by Mr. C. D. Bostwick, Comptroller, Cornell University, Ithaca, N. Y., until 12 o'clock noon (Standard Time), Thursday, July 17, 1924, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed and shall be accompanied by a deposit consisting of a certified check drawn upon some legally incorporated bank in this State and made payable to the State of New York, or money, equal to five per cent (5%) of the amount of the proposal. The contractor to whom the award is made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of the contract within thirty (30) days after official notice of award of contract and in accordance with the terms of Specification No. 4183. The right is reserved to reject any or all bids. Drawings and specifications may be examined at Cornell University, Ithaca, N. Y., at the New York Office of the Department of Architecture, 18th Floor, Fuller Building, Broadway and 23rd St., and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon the deposit of a certified check in the sum of $50.00, made payable to the State of New York, which check will be returned if the plans and specifications are received in good condition by the State Architect, Sullivan W. Jones, Capitol, Albany, N. Y.

Dated: June 25, 1924.